

ID List of INTERGLAD Ver. 7

1 ID List for Property Database

State

Glass General	G Glass
	X Glass-Ceramics
	C Composite
	M Modified
	T Thin Film
Melt	F Melt
Non-Vitrified	N Non-Vitrified
Not Specified	(Z) Not Specified

Glass System

Oxide	01 Silica
	02 Alkali Silicate
	03 Alkaline-earth Silicate
	04 Lead-Silicate
	05 Boro-Silicate
	06 Alumino-Silicate
	07 Zinc-Silicate
	08 Fluoro-Silicate
	09 Other Silicate
	10 Borate
	20 Phosphate
	25 Fluoro-Phosphate
	27 Lead
	28 Tellurite
	30 Aluminate
	35 Germanate
	38 Oxynitride
	40 Other Oxide
50	Chalcogenide
60	Fluoride
70	Halide (Except Fluoride)
80	Other non-oxide
81	Amorphous metal
90	Others
98	Non-vitrified
99	Unidentified

Shape, Feature & Manufacturing Process

Appearance

Shape	Grain	011 Powder,Frit	413 Acid Resistant
		012 Bead	414 Water Soluble Glass
		013 Balloon	421 Low Melting
		041 Flake	431 Hard Glass
		021 Fiber	511 Non Alkali
	Linear	022 Whisker	512 Non Lead
		023 Rod	514 Non Pb, As and Sb
		024 Tube	513 Non Phosphate
		025 Hollow Fiber	521 Non Actinic(Non Radioact)
		030 Film	522 Actinic(Radioactive)
	Film, Coatings	031 Thin Film, Deposited	531 Low Alkali
		033 Thick Film	532 Mixed Alkali
		042 Enamel,Glaze	611 Modified,others
		043 Lining	Heat-treated 440 Strengthened(Tempered)
		032 Film,Sheet	630 Ion Exchanged
	Flat	044 Flat Glass	621 Glass Ceramics
		045 Plate Glass	622 Phase Separated
		046 Sheet Glass	Composite 640 Hybrid Material
		047 Disk	710 Composite
		063 Block	711 Composite with Ceramics
Other Shape	064 Slab	712 Comp with Organic Material	
	090 Other Shape	713 Comp with Metal	
		Other Feature 631 Leached	
Structure	210 Porous	650 Doped(Stuffed)	
	211 Cellular	441 Machinable	
	324 Anisotropic	660 Photochromism	
	330 Graded Index	790 Ancient Glass	
Forming	061 Blown,Bottle,Bulb		
	220 Sintered		
	062 Pressed		
	221 Hot Pressed		
	222 Molded		
Color	223 Casting		
	310 Colored		
	321 Opal		
	322 Opaque		
	323 Translucent		

Feature

Chemical	411	Water Resistant
	412	Alkali Resistant

Manufacturing Process

801 Melting
810 Rapid Quenching
820 Micro Gravity
830 Sol-Gel
840 CVD
850 PVD
860 Natural Glass
890 Production,others

Others

999 Others

Usage

General

001 General

Energy, Nuclear, Radiation

Energy 110 Energy
111 Battery
114 Fuel Cell
112 Solar
113 Solar Cell
Radiation 140 Radiation
141 Radiation Shield
142 Scintillator
143 Cherenkov Counter
144 High Energy Particle
Detector
Nuclear 160 Nuclear
161 Radio Active Waste
Solidification
Radiation Dosimetry 170 Radiation Dosimetry

Optics, Optoelectronics

Optics, Optoelectronics 200 Optics, Optoelectronics
205 Optical Use
Lens & Prism 210 Lens & Prism
211 Ophthalmic Lens
212 Molded Lens
Mirror 220 Mirror
Wavelength Selector 230 Wavelength Selector
231 Color Filter
232 Non-glare Filter
233 IR-Transmitting
Material
234 UV-Transmitting
Material
235 IR Absorbing Material
236 UV Absorbing Material
Laser 240 Laser
Optical Transmission 250 Optical Transmission
251 Optical Fiber
252 Optical Waveguide
253 Connector
254 Isolator
255 Demulti-Multi Plexer
256 Divider
257 Polarization Relat Fiber

258 Fiber Bundle
259 Fiber Array
Optical Inform Proc 260 Optical Information Processing
261 Optical Modulator
262 Optical Switch
Optical Memory 270 Optical Memory
271 Magneto-optical
272 Erasable

Electronics, Electrical

300 Electronics, Electrical
Display 310 Display
311 Cathode Ray Tube
312 Plasma Display
313 Liquid Crystal Display
314 Electro Luminescence
315 Vacuum Tube
316 Video Camera
Solder Glass, Sealing Glass 320 Solder Glass, Sealing Glas
321 for Semiconductor Passivation
322 for Semiconductor Package
323 for Magnetic Head
324 for Cathode Ray Tube
325 Hermetic Seal
Substrate 330 Substrate
331 Mask for Photolithography
332 for Display
Ultrasonic Delay Line 340 Ultrasonic Delay Line
Microelectronics 350 Microelectronics
Electric Circuit 351 Electric Insulator
352 Electric Capacitator
353 Electric Resistor
354 Electric Circuit, Circuit Board
355 Electric Conductor
Semiconductor 360 Semiconductor
365 IC, LSI.
366 IC Package
Dielectrics 370 Dielectrics
Sensor 375 Sensor
Magnetic Recording 390 Magnetic Recording Head
391 Magnetic Memory Disk

Illumination

400 Illumination
410 Lamp
401 LED Illunination
411 Incandescent Lamp
412 Fluorescent Lamp
413 Halogen Lamp
414 Mercury Lamp
415 Sodium Lamp
416 Head Lamp
420 Shade
421 Reflector

Architect, Traffic, Industry

500 Architect, Traffic, Ind
Architect 510 Window
511 Wall
512 Roof
513 Thermal Insulator
514 Reinforcement of Cement
515 Tile
Traffic 540 Traffic
541 Traffic Marker,
Retro Reflective Glass
550 Vehicle Window
551 Ship
552 Airplane
Space 553 Space
Engine 560 Engine
Machinery 570 Machinery
Heat Exchanger 580 Heat Exchanger

Living, Consumer Products, Arts

600 Living, Consumer P, Arts
601 Consumer Products
610 Container
611 Cooking Ware, Culinary
612 Table Ware
613 Sanitary Ware
614 Bottle
620 Stove
630 Sporting Goods
640 Art
641 Jewelry

Chemical, Biotech, Medical

700 Chemical, Biotech, Medical
Chemical 710 Chemical
711 Laboratory Ware
712 Chemical Plant
713 Ion Electrode, Glass Electrode
714 Filtration
715 Catalyst Carrier
716 Gas Separation
Medical 720 Medical
721 Artificial Bone
728 Pharmacy
Dental 730 Dental
731 Artificial Tooth
732 Dental Crown
733 Dental Cement
Biotechnology 740 Biotechnology
Sterilizer 745 Sterilizer
Agriculture 750 Agriculture

Material

800 Material
805 Binder
806 Ceramic Binder
810 Metal
820 Lubricant
830 Coating
831 Coating on Ceramics
832 Coating on Metal
835 Painting
840 Composite
841 Filler
845 Fiber
850 Paper
860 Ceramics
870 Plastics, FRP
880 Waste Disposal

Other

900 Other
999 Not Specified

Data Source

Book

- 101 Bansal N. P. and Dremus R. H., Handbook of Glass Properties, (Academic Press), 1986.
- 102 Mazurin O. V., et al., Handbook of Glass Data, (Elsavir), **A**, 1983; **B**, 1985; **C**, 1987; **D**, 1991; **E**, 1993.
- 103 Edited by Boyd D. C. MacDowell J. F., Commercial Glasses, (The Am. Ceram. Soc.), 1986.
- 105 Volf M. B., Technical Glasses, (Sir Isac Pitman and Sons), 1961.
- 106 Morey G. W., Properties of Glass, (Reinhold Publishing), 1954.
- 107 Varshneya A. K., Fundamentals of Inorganic Glasses, (Academic Press), 1994.
- 108 Edited by GMAJ, Data Book of Glasses Composition, 1991 (J)
- 109 Ed. by Stebbins F. J., et al., Struc. Dy. & Prop. of Silicate Melts, (Mineral. Soc. Amer.), 1995.
- 110 Frischat G. H., Ionic Diffision in Oxide Glass, (Trans. Tech. Publications), 1975.
- 111 Mechanical Behavior of Materials, (Soc. Materials Science, Japan), 1972.
- 112 Manghnani M. H. et al., High-Pressure Research: Applications in Geophysics, (Academic Press), 1977.
- 113 Edited by Timmerhaus K. D. and Barber M. S., High-Pressure Scence and Technology, (Plenum Press).
- 114 Edited by Bickford D. F. et al., Advances in Fusion of Glass, (Am. Ceram. Soc.), 1988.
- 115 Edited by Shelby J. E., Rare Elements in Glass, (Trans. Tech. Publications), 1994.
- 116 Edited by Seward III T. P., Vascot T., High Temperature Glass Melt Property Databasefor Process Modeling, (Am. Ceram. Soc.), 2005.
- 117 Edited by Fanderik I., Vlastnosti Skel, (Informatorium, Preha), 1996.
- 121 Sakka S. et al., Glass Handbook, (Asakura Publishing), 1975 (J)
- 122 Morinaga K. et al, Physical Properties of PbO-B₂O₃-SiO₂ Glass Melts, 2000.

Scientific Journal

- | | | | |
|-----|--|-----|---|
| 201 | American Ceramic Society Bull. | 275 | J. Applied Cryst. |
| 212 | American Mineralogist | 221 | J. Applied Phys. |
| 223 | Applied Optics | 232 | J. Australian Ceramic Soc |
| 235 | Applied Physics Letters | 228 | J. Canadian Ceramic Soc. |
| 255 | Armyanskii Khimicheskii Zhurnal (R) | 215 | J. Chemical Physics |
| 270 | Biomaterials | 241 | J. Ceram. Soc. Japan |
| 280 | Bull. Ceram. Soc. Jpn. (J) | 246 | J. Chem. Soc. Japan |
| 248 | Bull. Gov. Ind. Res. Osaka | 259 | J. Electrochem. Soc. |
| 253 | Bull. Insti. Chemical Res. Kyoto Univ. | 267 | J. European Ceram. Soc. |
| 256 | Bull. Mater. Sci. | 271 | J. Luminescence |
| 234 | Ceramic Industry | 249 | J. Jpn. Inst. Metals |
| 219 | Ceramics - Silikaty | 244 | J. Jpn. Soc. Powder & Pow. Metal. |
| 281 | Chem. Phys. Lett. | 279 | J. Magnetic Resonance |
| 254 | Chemistry Express (J) | 216 | J. Materials Research |
| 262 | Chemistry Letters | 226 | J. Materials Science |
| 257 | Contrib. Mineral. Petrol. | 227 | J. Materials Science Let. |
| 258 | Geochim. Cosmochim. Acta | 263 | J. Material Sci.: Mater. in Electronics |
| 230 | Glass | 207 | J. Non-Crystalline Solids |
| 203 | Glass & Ceramics-USSR | 222 | J. Optical Soc. Am |
| 233 | Glass and Ceramics Bull. | 217 | J. Physics: Condens. Matter. |
| 231 | Glass Industry | 272 | J. Phys. Chem. B |
| 209 | Glass Phys. & Chem.-USSR | 225 | J. Phys. & Chem. Solids |
| 204 | Glass Technology | 202 | J. Reserch of Nat. Bur. Stand. |
| 205 | Glass Sci. and Tech. (Glastech. Ber.) | 242 | J. Soc. Materials Sci. Jpn. (J) |
| 237 | J. Alloys & Compounds | 211 | J. Sol-Gel Sci. & Tech. |
| 206 | J. Am. Ceram. Soc. | 220 | J. Solid State Chem. |
| 249 | Jpn. J. Appl. Phys. | | |

Company Catalogue

264 Keikinzo (J)
265 Kyudai-kougakushuhou (J)
214 Mater. Res. Bull.
273 Mater. Sci. Forum
243 Mater. Sci. Res. International
278 Materials Transactions JIM
251 Molten Salt (J)
277 Nature
260 Neorganicheskie Materialy (R)
250 New Glass (J)
276 NSG Found Mat. Sci. Eng. Rep. (J)
240 Optical Letters
239 Optical Materials
247 Ouyou Butsuri (J)
274 Physica B
208 Phys. & Chem. Glasses
224 Physical Review B
252 Rep. Insti. Ind. Sci. Univ. Tokyo (J)
261 Rev. Int. Hautes Temp. Refract. (F)
218 Silikattechnik (G)
238 Solid State Communications
213 Solid State Ionics
266 Steklo Keram (R)
229 Trans. Indian Ceramic Soc.
263 Thin Solid Film
210 Verres et Refractaires
269 Z. Naturforsch A
299 Others

Proceeding, etc.

302 An. Meet. Ceram. Soc. (J)
303 Fall Meet. Ceram. Soc. (J)
323 NEDO Project Reprot of NGF (J)
322 NGF's Additional New Data (J)
324 Nikkiren Report of NGF (J)
301 Proc. ICG
304 Proc. Jpn. Cong. Materials Res. (J)
305 Symposium Glass & Photonics Mater. (J)
399 Others

Patent

4EP European Patent
4JA Japanese Patent
4US US Patent

583 3M (US)
586 American Biomaterials (US)
562 Annaka Special Glass (J)
511 Asahi Fiber Glass (J)
510 Asahi Glass (J)
520 Asahi Techno Glass (J)
513 Central Glass (J)
571 Corning Inc (US)
594 Covina-Co Vidreira Nac (PT)
655 Eurinval Industrie (IT)
595 Flachglas (DE)
515 Fujikura Ltd. (J)
516 Furukawa Electric (J)
591 GEC ALSTHOM (GB)
574 General Electric (US)
575 Glaverbel (BE)
588 Hankuk Glass Industry (KR)
517 Hitachi Cable (J)
518 Hoya Corp (J)
549 Idemitsu Kosan (J)
519 Ishizuka Glass (J)
554 Isuzu Seiko (J)
636 Japan Fillite (J)
568 Kanto Horo Yuyaku (J)
606 Kobe Steel (J)
523 Konika Minolta (J)
584 Libbey Owens Ford (US)
654 Mashpriborintorg (SU)
521 Matsunami Glass (J)
565 Mitsubishi Electric Wire (J)
546 Mitsubishi Material (J)
557 Mitsui Mining (J)
560 Narumi China Corp (J)
656 Nat. Inst. Stand. Tech. (US)
559 NGK Insulators (J)
545 Nihon Yamamura Glass (J)
528 Nikon Corp (J)
564 Nippon Amorphous Metals (J)
524 Nippon Electric Glass (J)
552 Nippon Ferro (J)
553 Nippon Frit (J)
569 Nihon Klingage (J)
529 Nippon Sheet Glass (J)
566 Nippon Silica Ind (J)
547 Nitto Boseki (J)
525 Nitto Chemical Ind (J)
531 Ohara Inc (J)

596	OI-NEG TV Products (US)	627	Citizen Watch (J)
551	Okuno Chemical Ind (J)	623	CNRS (FR)
563	Ota Glass (J)	571	Corning Inc (US)
576	Owens Corning (US)	594	Covina-Co Vidreira Nac (PT)
593	Owens Illinois (Kimble) (US)	648	Degussa (DE)
578	Philips (NL)	572	Du Pon't de Nemours (US)
567	Photon Ceramics (J)	641	English Electric (GB)
579	Pilkington (GB)	629	Ernst Leitz Wetzlar (DE)
580	PPG Ind. (US)	573	ESL (US)
582	Saint-Gobain (FR)	655	Eurival Industrie (IT)
581	Schott AG (DE)	537	FDK (J)
653	Schott Glas (Jena) (DE)	646	Ferro Co. (US)
561	Shibata Glass (J)	595	Flachglas (DE)
535	Shibata Hario Glass (J)	622	Fuji Electric (J)
558	Shin-etsu Quartz (J)	601	Fuji Photo Film (J)
538	Showa Ele Wire & Cable (J)	515	Fujikura Ltd. (J)
650	Sumikin Ceramics & Quarz (J)	605	Fujitsu (J)
540	Sumita Optical Glass (J)	516	Furukawa Electric (J)
541	Sumitomo Electric Ind (J)	591	GEC ALSTHOM (GB)
637	Tatsumori (J)	574	General Electric (US)
530	Tosoh Quartz (J)	575	Glaverbel (BE)
542	Toshiba Ceramics (J)	588	Hankuk Glass Industry (KR)
556	Union (J)	609	Hitachi (J)
555	Unitika (J)	517	Hitachi Cable (J)
592	VIOX Corp (US)	625	Hitachi Metals (J)

Patent Company

583	3M (US)	519	Ishizuka Glass (J)
500	Advanced Ind. Sci. & Tech. (J)	554	Isuzu Seiko (J)
586	American Biomaterials (US)	620	ITT Ind (US)
562	Annaka Special Glass (J)	626	Iwasaki Electric (J)
628	ANVAR (FR)	636	Japan Fillite (J)
617	Asahi Chemical Ind (J)	585	John Manville (US)
511	Asahi Fiber Glass (J)	503	Jpn. Sci. Tech. Agency (J)
510	Asahi Glass (J)	604	Kanebo (J)
520	Asahi Techno Glass (J)	568	Kanto Horo Yuyaku (J)
634	AT & T Bell Lab (US)	621	KDD (J)
638	Atlantic Richfield (US)	548	Kinmon Mfg (J)
632	Battelle Memorial Ins (US)	606	Kobe Steel (J)
651	Bayer (DE)	539	Kodak (US)
639	British Telecom (GB)	523	Konica Minolta (J)
512	Canon Inc (J)	633	Kyocera (J)
657	Carl Zeiss (DE)	649	Le Verre Fluore (FR)
513	Central Glass (J)	584	Libbey Owens Ford (US)
		654	Mashpriborintorg (SU)

521 Matsunami Glass (J)
 522 Matsushita Ele Ind (J)
 611 Matsushita Ele Works (J)
 608 Mitsubishi Electric (J)
 565 Mitsubishi Electric Wire (J)
 546 Mitsubishi Material (J)
 557 Mitsui Mining (J)
 505 Miyazaki Pref (J)
 550 Murata Manufacturing (J)
 560 Narumi China Corp (J)
 656 Nat. Inst. Stand. Tech. (US)
 502 Nat. Insti. Mat. Sci. (J)
 559 NGK Insulators (J)
 614 NGK Spark Plug (J)
 527 NH Techno Glass (J)
 569 Nihon Klingage (J)
 545 Nihon Yamamura Glass (J)
 528 Nikon Corp (J)
 564 Nippon Amorphous Metals (J)
 615 Nippon Electric (J)
 524 Nippon Electric Glass (J)
 552 Nippon Ferro (J)
 553 Nippon Frit (J)
 530 Nippon Sekiei Glass (J)
 529 Nippon Sheet Glass (J)
 566 Nippon Silica Ind (J)
 547 Nitto Boseki (J)
 525 Nitto Chemical Ind (J)
 610 NTT (J)
 531 Ohara Inc (J)
 596 OI-NEG TV Products (US)
 534 Okamoto Glass (J)
 551 Okuno Chemical Ind (J)
 631 Olin (US)
 532 Olympus Optical (J)
 563 Ota Glass (J)
 576 Owens Corning (US)
 593 Owens Illinois (Kimble) (US)
 577 Owens Illinois Inc (US)
 644 Pfizer Hospital Prod (US)
 578 Philips (NL)
 567 Photon Ceramics (J)
 579 Pilkington (GB)
 643 Post Office (GB)
 580 PPG Ind. (US)
 582 Saint-Gobain (FR)
 618 Sanyo Electric (J)
 533 Sasaki Glass (J)
 581 Schott Glas (DE)
 653 Schott Glas (Jena) (DE)
 590 Schott Glass Techn (US)
 613 Seiko Epson (J)
 561 Shibata Glass (J)
 535 Shibata Hario Glass (J)
 612 Shin-etsu Chemical (J)
 558 Shin-etsu Quartz (J)
 538 Showa Ele Wire & Cable (J)
 506 Siga Pref (J)
 624 Sony Corporation (J)
 640 Std Tel & Cables Pub (GB)
 650 Sumikin Quarz (J)
 540 Sumita Optical Glass (J)
 541 Sumitomo Electric Ind (J)
 619 Sumitomo Metal Mining (J)
 607 Sumitomo Special Metal (J)
 561 Shibata Glass (J)
 637 Tatsumori (J)
 616 TDK (J)
 542 Toshiba Ceramics (J)
 602 Toshiba Corporation (J)
 603 Toshiba Kasei (J)
 536 Toyo Glass (J)
 597 U.S. Philips (US)
 556 Union (J)
 555 Unitika (J)
 501 Univ. of Kyoto (J)
 504 Univ. of Saitama (J)
 642 Univ. of Stratchelyde (GB)
 635 Univ.of Rochester (US)
 630 USA Gov (US)
 592 VIOX Corp (US)
 652 WC Heraeus (DE)
 645 Westinghouse Ele (US)
 587 Xomed Inc (US)

User Data

900 User Data

Composition

category	ID	component	category	ID	component	category	ID	component	
Oxide									
Main Oxide	002	B2O3		120	Lu2O3	M(6+)Oxide	126	CrO3	
	074	GeO2		125	Mn2O3		092	MoO3	
	001	SiO2		090	Nb2O3		186	RO3	
	079	TeO2		059	Nd2O3		186	RO3	
				138	Ni2O3		091	SO3	
M(1+)Oxide	023	Ag2O		110	Pm2O3		136	UO3	
	024	Cs2O		121	Pr2O3		093	WO3	
	021	Cu2O		183	R2O3	M(2+)M(3+)Oxide	064	Co3O4	
	102	D2O		I83	R2O3		069	Fe3O4	
	101	H2O		191	RE2O3		068	Mn3O4	
	026	Hg2O		I91	RE2O3		070	Pb3O4	
	009	K2O		057	Sb2O3	M(3+)M(4+)Oxide	123	Pr6O11	
	007	Li2O		063	Sc2O3				
	008	Na2O		111	Sm2O3	M(4+)M(6+)Oxide	135	U3O8	
	103	OH		114	Tb2O3				
	181	R2O		137	Ti2O3				
	181	R2O		118	Tm2O3				
	022	Rb2O		131	U2O3	Fluoride	394	AgF	
	025	Tl2O		087	V2O3		222	AlF3	
				055	Y2O3		211	BaF2	
			119	Yb2O3	250		BaFCl		
					207		BeF2		
			M(4+)Oxide	192	AnO2		393	BF3	
M(2+)Oxide	006	BaO		192	AnO2		225	BiF3	
	031	BeO		076	CeO2		209	CaF2	
	005	CaO		073	CoO2		216	CdF2	
	039	CdO		074	GeO2		227	CeF3	
	034	CoO		089	HfO2		241	CoF2	
	036	CuO		072	MnO2		221	CrF3	
	127	EuO		128	MoO2		205	CsF	
	033	FeO		416	PbO2		214	CuF2	
	041	HgO		124	PrO2		239	DyF3	
	004	MgO		134	PuO2		397	ErF3	
	032	MnO		184	RO2		249	EuF3	
	035	NiO		184	RO2		213	FeF2	
	040	PbO		080	RuO2		242	FeF3	
	122	PdO		078	SeO2		223	GaF3	
	182	RO		001	SiO2		229	GdF3	
	182	RO		077	SnO2		234	HfF4	
	042	SnO		094	SO2		391	HgF2	
	038	SrO		079	TeO2		240	HoF3	
920	TiO		130	ThO2		224	InF3		
037	ZnO		071	TiO2		203	KF		
M(3+)Oxide	003	Al2O3		132	UO2		238	KHF2	
	054	As2O3		085	V2O4		226	LaF3	
	002	B2O3		075	ZrO2		201	LiF	
	061	Bi2O3		M(5+)Oxide	067	As2O5		231	LuF3
	066	Ce2O3			086	Mo2O5		208	MgF2
	062	Co2O3			105	N2O5		212	MnF2
	051	Cr2O3			083	Nb2O5		202	NaF
	115	Dy2O3			081	P2O5		399	NbF5
	117	Er2O3			185	R2O5		228	NdF3
	112	Eu2O3			I85	R2O5		402	NbO2F
	052	Fe2O3			065	Sb2O5			
	053	Ga2O3			084	Ta2O5			
060	Gd2O3			082	V2O5				
116	Ho2O3								

category	ID	component	category	ID	component	category	ID	component
	246	NiF2		268	PbCl2		306	TlBr
	218	PbF2		292	PrCl3		330	YbBr3
	392	PF5		254	RbCl		320	YBr3
	398	PrF3		294	SbCl3		315	ZnBr2
	204	RbF		269	ScCl3		333	ZrBr4
	244	SbF3		267	SnCl2			
	219	ScF3		289	SOCl2			
	237	SiF4		260	SrCl2	Iodide	386	AgI
	245	SmF3		290	TbCl3		372	AlI3
	217	SnF2		295	TeCl4		361	BaI2
	210	SrF2		285	ThCl4		357	BeI2
	297	SrFCl		282	TiCl4		375	BiI3
	401	TaO2F		256	TlCl		359	CaI2
	248	TbF3		291	VCl3		366	CdI2
	235	ThF4		296	WCl6		377	CeI3
	887	TiF3		280	YbCl3		371	CrI3
	232	TiF4		270	YCl3		355	CsI
	395	TiOF2		265	ZnCl2		387	CuI
	206	TlF		283	ZrCl4		364	CuI2
	396	TmF3					388	ErI3
	247	UF4		336	AgBr		363	FeI2
	236	VF3	Bromide	322	AlBr3		373	GaI3
	243	VF4		311	BaBr2		379	GdI3
	230	YbF3		307	BeBr2		384	HfI4
	220	YF3		325	BiBr3		389	HgI2
	215	ZnF2		309	CaBr2		374	InI3
	233	ZrF4		316	CdBr2		353	KI
				327	CeBr3		376	LaI3
Chloride	286	AgCl		321	CrBr3		351	LiI
	272	AlCl3		305	CsBr		381	LuI3
	261	BaCl2		337	CuBr		358	MgI2
	257	BeCl2		314	CuBr2		362	MnI2
	275	BiCl3		338	ErBr3		352	NaI
	259	CaCl2		313	FeBr2		378	NdI3
	288	CCl4		323	GaBr3		368	PbI2
	266	CdCl2		329	GdBr3		354	RbI
	277	CeCl3		334	HfBr4		369	ScI3
	417	CoCl2		339	HgBr2		367	SnI2
	271	CrCl3		324	InBr3		360	SrI2
	255	CsCl		303	KBr		385	ThI4
	287	CuCl		326	LaBr3		382	TiI4
	264	CuCl2		301	LiBr		356	TlI
	293	ErCl3		331	LuBr3		380	YbI3
	263	FeCl2		308	MgBr2		370	YI3
	273	GaCl3		312	MnBr2		365	ZnI2
	279	GdCl3		302	NaBr			
	284	HfCl4		328	NdBr3			
	415	HgCl2		299	NiBr2			
	298	HoCl3		318	PbBr2			
	274	InCl3		304	RbBr			
	253	KCl		319	ScBr3			
	276	LaCl3		317	SnBr2			
	251	LiCl		310	SrBr2			
	281	LuCl3		335	ThBr4			
	258	MgCl2		332	TiBr4			
	262	MnCl2						
	252	NaCl						
	278	NdCl3						

category	ID	component	category	ID	component	category	ID	component
Element				601	Md	Sulfide etc.		
				512	Mg		843	Ag ₂ S
	589	Ac		525	Mn		852	Ag ₂ Se
	547	Ag		542	Mo		849	As ₂ S ₃
	513	Al		507	N		853	As ₄ S ₄
	595	Am		511	Na		875	As Se
	518	Ar		541	Nb		850	As ₂ Se ₃
	533	As		560	Nd		854	As ₂ Se ₅
	585	At		510	Ne		881	As ₂ Te ₃
	579	Au		528	Ni		922	BP
	505	B		602	No		865	B ₂ S ₃
	556	Ba		593	Np		855	BaS
	504	Be		508	O		856	Bi ₂ S ₃
	583	Bi		576	Os		095	CdS
	597	Bk		515	P		141	CdSe
	535	Br		591	Pa		142	CdTe
	506	C		582	Pb		866	Cs ₂ S
	520	Ca		546	Pd		921	CuP
	548	Cd		561	Pm		884	Cu ₂ Se
	558	Ce		584	Po		857	Dy ₂ S ₃
	598	Cf		559	Pr		882	Er ₂ S ₃
	517	Cl		578	Pt		883	EuS
	596	Cm		594	Pu		936	GaAs
	527	Co		588	Ra		858	Ga ₂ S ₃
	524	Cr		537	Rb		864	Ga ₂ Se ₃
	555	Cs		575	Re		880	GeS
	529	Cu		545	Rh		097	GeS ₂
	604	D		586	Rn		872	GeSe ₂
	566	Dy		544	Ru		869	GeSe ₃
	568	Er		516	S		868	HgS
	599	Es		551	Sb		937	InGaAs
	563	Eu		521	Sc		938	InGaAsP
	509	F		534	Se		935	InP
	526	Fe		514	Si		859	La ₂ S ₃
	600	Fm		562	Sm		876	Li ₃ N
	587	Fr		550	Sn		096	Li ₂ S
	531	Ga		538	Sr		877	Li ₂ Se
	564	Gd		573	Ta		860	Lu ₂ S ₃
	532	Ge		565	Tb		870	K ₂ S
	501	H		543	Tc		410	Na ₂ S
	502	He		552	Te		104	NH ₃
	572	Hf		590	Th		861	Nd ₂ S ₃
	580	Hg		522	Ti		413	P ₂ S ₅
	567	Ho		581	Tl		848	PbS
	553	I		569	Tm		862	Pr ₂ S ₃
	549	In		592	U		411	Rb ₂ S
	577	Ir		523	V		863	Sb ₂ S ₃
	519	K		574	W		888	SbSI
	536	Kr		554	Xe		873	Sb ₂ Se ₃
	557	La		539	Y		412	SiS ₂
	503	Li		570	Yb		878	SiSe ₂
	603	Lr		530	Zn		874	SnSe
	571	Lu		540	Zr		879	Tl ₂ S
							885	Tl ₂ Se
							886	Tl ₂ Te
							867	Tm ₂ S ₃
							098	ZnS
							099	ZnSe
							871	ZrS ₂

ID	component	ID	component	ID	component
Raw Materials					
803	2CaO ₃ ·B ₂ O ₃ ·5H ₂ O	952	KAlSi ₂ O ₆ Leucite	728	PbTiO ₃
724	Ag ₃ AsO ₄	754	Kaolin	729	PbZrO ₃
730	AgAsS ₂	772	KNO ₃	950	SbPO ₄
725	Ag ₂ MoO ₄	773	KPF ₆	903	Si ₃ N ₄
798	AgNO ₃	774	KPO ₃	814	Sirasu
821	AgPO ₃	839	La(PO ₃) ₃	817	Slag
731	Ag ₃ PO ₄	780	La ₂ (CO ₃) ₃	414	SrB ₆
726	Ag ₄ P ₂ O ₇	746	Li ₃ AlO ₃	799	SrB ₄ O ₇
732	AgPS ₃	800	LiBO ₂	793	Sr(NO ₃) ₂
733	Ag ₂ SO ₄	833	Li ₂ B ₄ O ₇	750	Sr(PO ₃) ₂
734	Ag ₃ VO ₄	735	Li ₃ BO ₃	845	Sr ₃ (PO ₄) ₂
740	Ag ₂ WO ₄	742	Li ₆ B ₄ O ₉	792	SrCO ₃
934	Al(NO ₃) ₃	743	Li ₆ B ₄ S ₉	827	TiPO ₃
758	Al(OH) ₃	778	Li ₂ CO ₃	751	Ti ₃ (PO ₄) ₄
759	Al(PO ₃) ₃	806	LiF·KF·Al ₂ O ₃ ·3SiO ₂	955	V ₂ SO ₄
951	Al ₂ SiO ₅	747	Li ₃ GaO ₃	815	Water Glass
801	Al ₂ O ₃ ·2SiO ₂ ·2H ₂ O	736	Li ₄ GeO ₄	794	Zn(NO ₃) ₂
901	AlN	714	LiHSO ₄	795	Zn(PO ₃) ₂
797	AlPO ₄	748	Li ₃ InO ₃	956	ZnP ₄ O ₁₁
844	BPO ₄	752	Li ₂ Mo ₄	820	Zn ₃ (PO ₄) ₂
761	Ba(NO ₃) ₂	779	LiNO ₃	834	ZnCO ₃
741	Ba ₃ N ₂	723	LiNbO ₃	823	ZnSO ₄
762	Ba(PO ₃) ₂	807	Li ₂ O·Al ₂ O ₃ ·4SiO ₂	Others	
760	BaCO ₃	808	Li ₂ O·Al ₂ O ₃ ·8SiO ₂	999	Others
763	BaSiF ₆	841	LiPO ₃	Filler	
764	BaSO ₄	721	Li ₃ PO ₄	914	2Al ₂ O ₃ ·SiO ₂
842	BaTiO ₃	737	Li ₄ SiO ₄	909	2MgO·2Al ₂ O ₃ ·5SiO ₂
836	Bi(NO ₃) ₃ ·5H ₂ O	744	Li ₆ Si ₂ S ₇	930	2MgO·SiO ₂
791	CaB ₂ O ₄	824	Li ₂ SO ₄	911	2ZnO·SiO ₂
819	Ca(NO ₃) ₂	781	MgCO ₃	003	Al ₂ O ₃
766	Ca(PO ₃) ₂	809	MgCO ₃ ·CaCO ₃	901	AlN
767	Ca ₃ (PO ₄) ₂	782	Mg(PO ₃) ₂	908	Apatite
765	CaCO ₃	954	MgP ₄ O ₁₁	916	BaRh ₆ O ₁₃
846	CaHPO ₄ ·2H ₂ O	818	Mg ₃ (Si ₄ O ₁₀)(OH) ₂	757	BaZrO ₃
802	CaAl ₂ Si ₂ O ₈	826	MgSO ₄	912	BN
768	CaSO ₄	835	Na ₂ B ₂ O ₄ ·8H ₂ O	939	Boride
838	Cd(NO ₃) ₂	933	Na ₂ B ₄ O ₇	506	C
822	CdCO ₃	810	Na ₂ B ₄ O ₇ ·10H ₂ O	932	Ca ₃ N ₂
825	CdSO ₄	837	NaBiO ₃	925	CaO·SiO ₂
719	CdGeO ₃	783	Na ₂ CO ₃	755	CaZrO ₃
953	Cs ₂ PO ₄	811	NaHPO ₄ ·12H ₂ O	941	CeB ₆
716	Cu ₂ MoO ₄	715	NaHSO ₄	923	Clay
830	Cu(NO ₃) ₂	753	Na ₂ MoO ₄	889	Filler Glass
717	CuPO ₃	785	NaNO ₃	900	Matrix Glass
718	Cu ₂ WO ₄	813	Na ₂ O·2B ₂ O ₃ ·4H ₂ O	907	Li ₂ O·Al ₂ O ₃ ·2SiO ₂
840	Ga(PO ₃) ₃	812	Na ₂ O·Al ₂ O ₃ ·6SiO ₂	929	Mg ₃ N ₂
796	H ₃ BO ₃	738	Na ₂ P ₂ O ₆	904	MgO·SiO ₂
769	H ₃ PO ₄	722	Na ₃ PO ₄	943	Mg ₂ Si
745	In(PO ₃) ₃	786	Na ₄ P ₂ O ₇	919	Mica
805	K ₂ O·3Na ₂ O· 4Al ₂ O ₃ ·9SiO ₂	784	NaPO ₃	944	MoSi ₂
749	K ₂ B ₄ O ₇	787	Na ₂ SO ₄	945	NbB ₂
770	K ₂ CO ₃	788	NaSO ₃ F	906	Organic Compound
771	K ₂ CrO ₇	829	Nd ₂ SO ₄	910	PbO·TiO ₂
713	KHSO ₄	847	Na ₂ SiF ₆	917	PbRh ₇ O ₁₅
727	KNbO ₃	739	Na ₂ Te ₂ O ₅	913	Pigment
804	K ₂ O·Al ₂ O ₃ ·6SiO ₂	816	Nuclear Waste	903	Si ₃ N ₄
775	K ₂ SiF ₆	720	PbGeO ₃		
776	K ₂ SO ₄	789	Pb(NO ₃) ₂		
777	K ₂ TiF ₆	790	Pb(PO ₃) ₂		
		832	Pb ₂ Sb ₂ O ₇		
		831	PbSnO ₃		
		851	PbSO ₄		

ID	component	ID	crystal	component
Crystal				
931	SiAlON	421	Albite	NaAlSi ₃ O ₈
902	SiC	422	Anorthite	CaAl ₂ Si ₂ O ₈
940	Silicide	423	Apatite	A ₁₀ (MO ₄) ₆ X ₂ ex) A:Ca, M:P, X:F
001	SiO ₂			
924	Spinel	424	Aragonite	CaCO ₃
414	SrB ₆	425	Baddeleyte	monoclinic ZrO ₂
756	SrZrO ₃	462	BaZr ₂ F ₁₀	
947	TaSi ₂	463	BaZrF ₆	
918	Teniolite	426	Canasite	
948	TiB ₂	427	Ca-Orthophosphate	Ca ₃ (PO ₄) ₂
915	Ti ₃ B ₄	428	Carnegieite	NaAlSiO ₄
927	TiN	429	Celsian	BaAl ₂ Si ₂ O ₈
949	VB ₂	430	Cordierite	2MgO · 2Al ₂ O ₃ · 5SiO ₂
928	Zeolite	431	Corundum	αAl ₂ O ₃
926	ZrB ₂	460	Cristobalite	SiO ₂
075	ZrO ₂	432	Devitrite	
905	ZrO ₂ · SiO ₂	433	Diopside	CaMg(SiO ₃) ₂
999	Others	434	Enstatite	MgO · SiO ₂
		435	Eucryptite	Li ₂ O · Al ₂ O ₃ · 2SiO ₂
		436	Hematite	Fe ₂ O ₃
		437	Feldspar	K-Na-Ca-Al-Si-O
		438	Fluoramphibole	
		439	Fluoromica	
		440	Fluorophlogopite	
		441	Fluorrichterite	
		442	Forsterite	Mg ₂ SiO ₄
		443	Gehlenite	Ca ₂ Al ₂ SiO
		444	Gahnite	ZnAl ₂ O ₄
		445	Keatite	
		446	Lepidolite	K-(LiAl)-(Si,Al)-O-(F,OH)
		447	Li-Disilicate	Li ₂ Si ₂ O ₅
		474	Li-Metasilicate	Li ₂ SiO ₃
		448	Magnetite	
		449	Mg-Titanate	
		470	Mica	
		471	Monazite(Cryptolite)	M(PO ₄) 3Al ₂ O ₃ · 2SiO ₂
		450	Mullite	NaAlSiO ₄
		451	Nepheline	BaO · 2MgO · 3Al ₂ O ₃ · 9SiO ₂
		473	Osumilite	(Cs,Na) ₂ Al ₂ Si ₄ O ₁₂ · H ₂ O
		452	Pollucite	SiO ₂
		461	Quartz	SiO ₂
		464	β-Quartz	SiO ₂
		453	Richterite	(Na,K) ₂ (Mg,Mn,Ca) ₆ Si ₈ O ₂₂ · (OH) ₂
		454	Rutile	TiO ₂
		465	Silicon nitride	Si ₃ N ₄
		455	Sphene	CaTiSiO ₅
		456	Spinel	MR ₂ O ₄ ex)MgAl ₂ O ₄
		466	Spodumene	
		457	Tridymite	SiO ₂
		469	VOPO ₄	
		458	Willemite	2ZnO · SiO ₂
		468	Wollastonite	CaSiO ₃
		459	Zn-Petallite	ZnO · Al ₂ O ₃ · SiO ₂
		472	Zirconia	ZrO ₂
		999	Others	

Substrate		
Glass	980	Alkali Silicate
	981	Non-alkali Silicate
	982	Silica Glass
	983	Other Glass
Single Crystal	984	Si Crystal
	985	Other Crystal
Others	986	Ceramic
	987	Metal
	988	Plastic
	999	Others

category	ID	component	category	ID	component
Sol-Gel Material			Ca	661	Ca(O-i-C3H7)2
Materials			Sr	662	Sr- 2-ethylhexanoate
Si	611	Si(OCH3)4	Ba	663	Ba(OC2H5)2
4-functional	612	Si(OC2H5)4		664	Ba metal
	613	Si(O-n-C3H7)4		665	Ba(CH3COO)2
	614	Si(O-n-C4H9)4	Bi	666	Bi-2-ethylhexanoate
	615	HSi(OCH3)3	Pb	667	Pb(CH3COO)2.3H2O
Si	616	CH3Si(OCH3)3		668	Pb(OC2H5)2
3-functional,	617	C2H5Si(OCH3)3	Solvent		
methoxy	618	CH2=CHSi(OCH3)3	Alcohol	669	CH3OH
	619	C6H5Si(OCH3)3		670	C2H5OH
	620	CH2		671	n-C3H7OH
	621	=C(CH3)COOC3H6Si(OCH3)3		672	i-C3H7OH
	622	CH2OCHCH2OC2H6Si(OCH3)3		673	n-C4H9OH
		3-aminopropyltrimethoxysilane		674	2-CH3OCH2OH
Si	623	CH3Si(OC2H5)3		675	2-CH3OC2H4OH
3-functional,	624	C2H5Si(OC2H5)3		676	2-C2H5OC2H4OH
ethoxy	625	CH2=CHSi(OC2H5)3		677	Diacetone alcohol
	626	C6H5Si(OC2H5)3		678	Ethylene glycol
	627	3-aminopropyltriethoxysilane		679	1,3-propandiol
Si (2-func.)	628	(CH3)2Si(OC2H5)2		680	1,3-butanediol
B	629	B(OCH3)3		681	1,4-butanediol
	630	B(OC2H5)3	Other	682	Tetrahydrofuran
	631	B(O-n-C4H9)3		683	Dioxane
	632	H3BO3		684	Dimethylformamide
Al	633	Al(O-i-C3H5)3		685	Formamide
	634	Al(O-sec-C4H9)3		686	Acetonitrile
	635	Al(NO3)3		687	H2O
P	636	H3PO4	Catalyst		
	711	PO(OCH3)3	Acid	688	HCl
	637	PO(OC2H5)3		689	HNO3
Ge	638	Ge(OC2H5)4		690	CH3COOH
	639	GeCl4		691	H2SO4
	640	Ge(O-i-C3H7)		692	HF
Ti	641	Ti(OC2H5)4	Base	693	NH4OH
	642	Ti(O-i-C3H7)4		694	NaOH
	643	Ti(O-n-C4H9)4	Additive		
	644	Ti(O-i-C4H9)4	695		Polyvinyl alcohol
	645	Ti(O-sec-C4H9)4	696		Polyethylene glycol
V	646	VO(O-i-C3H7)3	697		Polyethylene oxide
Mn	647	Mn(CH3COO)2.2H2O	698		Poly acrylic acid
Zr	648	Zr(O-n-C3H7)4	699		Polyvinylpyrrolidone
	649	Zr(O-n-C4H9)4	700		Acetylacetone
	650	ZrOCl2	701		Ethylacetoacetate
	651	ZrO(NO3)2.2H2O	702		Monoethanolamine
Nb	652	Nb(OC2H5)5	703		Diethanolamine
Ta	653	Ta(OC2H5)5	704		Triethanolamine
Li	654	LiOCH3	705		Hydrogen peroxide
	655	LiOC2H5	706		Methacrylic acid
	656	CH3COOLi	707		Dimethylformamide
Na	657	NaOCH3	708		Dimethylacetamide
	712	NaOC2H5	709		Formamide
	658	CH3COONa	710		Glycerol
Mg	659	Mg(OC2H5)2	Others		
	660	Mg(CH3COO)2	999		Others

Property

(1) Mechanical, Physical

category	ID	property	common	SI	CGS	psi
Density, Porosity						
	0301	Pore Size	nm	m	nm	nm
	0302	Pore Volume	cm ³ /g	m ³ /kg	cm ³ /g	cm ³ /g
	0303	Specific Surface Area	m ² /g	m ² /kg	m ² /g	m ² /g
	0304	Porosity	%	—	—	—
	0015	Molar Volume at RT	cm ³ /mol	m ³ /mol	cm ³ /mol	m ³ /mol
	0016	Molar Volume at X	cm ³ /mol	m ³ /mol	cm ³ /mol	m ³ /mol
(Density)						
	0009	Bulk Density	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0010	Density (Miscell)	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0510	Density at RT	g/cm ³	kg/m ³	g/cm ³	lb/in ³
(Density (100-900C))						
	0511	Density at 100C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0512	Density at 200C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0513	Density at 300C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0514	Density at 400C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0515	Density at 500C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0516	Density at 600C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0517	Density at 700C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0518	Density at 800C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0519	Density at 900C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
(Density (1000-2000C))						
	0520	Density at 1000C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0521	Density at 1100C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0522	Density at 1200C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0523	Density at 1300C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0524	Density at 1400C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0525	Density at 1500C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0526	Density at 1600C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0527	Density at 1700C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0528	Density at 1800C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0529	Density at 1900C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
	0530	Density at 2000C	g/cm ³	kg/m ³	g/cm ³	lb/in ³
Elasticity						
	0050	Shear Modulus	GPa	Pa	kgf/mm ²	psi
	0070	Bulk Modulus	GPa	Pa	kgf/mm ²	psi
	0060	Poisson Ratio	—	—	—	—
	0051	Temp Coeff of Shear Mod	#	#	#	#
	0041	Temp Coeff of Young's Mod	#	#	#	#
	7190	Internal Friction	—	—	—	—

-	ID	property	common	SI	CGS	psi
	(Young's Modulus)					
	0040	Young's Modulus (Miscell)	GPa	Pa	kgf/mm ²	psi
	0042	Young's Modulus at <0C	GPa	Pa	kgf/mm ²	psi
	0540	Young's Modulus at RT	GPa	Pa	kgf/mm ²	psi
	(Young's Modulus (100-1200C))					
	0541	Young's Modulus at 100C	GPa	Pa	kgf/mm ²	psi
	0542	Young's Modulus at 200C	GPa	Pa	kgf/mm ²	psi
	0543	Young's Modulus at 300C	GPa	Pa	kgf/mm ²	psi
	0544	Young's Modulus at 400C	GPa	Pa	kgf/mm ²	psi
	0545	Young's Modulus at 500C	GPa	Pa	kgf/mm ²	psi
	0546	Young's Modulus at 900C	GPa	Pa	kgf/mm ²	psi
	0547	Young's Modulus at 1000C	GPa	Pa	kgf/mm ²	psi
	0548	Young's Modulus at 1100C	GPa	Pa	kgf/mm ²	psi
	0549	Young's Modulus at 1200C	GPa	Pa	kgf/mm ²	psi
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	Sound Velocity					
	0080	Velocity Longitudial Wave	m/s	m/s	m/s	m/s
	0081	Velocity Longitudial Wave >500C	m/s	m/s	m/s	m/s
	0085	Velocity Transvece Wave	m/s	m/s	m/s	m/s
	0090	Velocity of Surface Wave	m/s	m/s	m/s	m/s
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	Mechanical Strength					
	0110	Abraded Strength	MPa	Pa	kgf/mm ²	psi
	0120	Tensile Strength	MPa	Pa	kgf/mm ²	psi
	0140	Compressive Strength	MPa	Pa	kgf/mm ²	psi
	0150	Torsion Strength	MPa	Pa	kgf/mm ²	psi
	(Flexural Strength)					
	0102	Flexural Strength (Miscell)	MPa	Pa	kgf/mm ²	psi
	0100	Flexural Strength (3p)	MPa	Pa	kgf/mm ²	psi
	0101	Flexural Strength (4p)	MPa	Pa	kgf/mm ²	psi
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	Hardness, Toughness					
	0160	Fracture Toughness	MPa · m ^{1/2}	Pa · m ^{1/2}	MPa · m ^{1/2}	Pa · m ^{1/2}
	0161	Brittleness	m ^{-1/2}	m ^{-1/2}	um ^{-1/2}	m ^{-1/2}
	0200	Machinability	—	—	—	—
	0171	Knoop Hardness	MPa	Pa	kgf/mm ²	psi
	0172	Mohs Hardness	—	—	—	—
	(Vickers Hardness)					
	0180	Vickers Hardness (Typical)	MPa	Pa	kgf/mm ²	psi
	0170	Vickers Hardness (Miscell)	MPa	Pa	kgf/mm ²	psi
	0173	Vickers Hardness 50g	MPa	Pa	kgf/mm ²	psi
	0174	Vickers Hardness 100g	MPa	Pa	kgf/mm ²	psi
	0175	Vickers Hardness 200g	MPa	Pa	kgf/mm ²	psi
	0176	Vickers Hardness 500g	MPa	Pa	kgf/mm ²	psi
<hr/>						
	Fatigue, Relaxation					
	0210	Static Fatigue	—	—	—	—

-	ID	Property	common	SI	CGS	psi
	0211	Dynamic Fatigue	MPa	Pa	kgf/mm ²	psi
	0215	Stress Corrosion Resist	—	—	—	—
	0099	Stress Relaxation	—	—	—	—
<hr/>						
Interfacial						
	0191	Friction Coeff	—	—	—	—
	0190	Abrasion Resistance	#	#	#	#
	0230	Adhesion	—	—	—	—
	1460	Adsorption	g/m ²	g/m ²	g/m ²	g/m ²
	1470	Adsorption Heat	kJ/mol	J/mol	kcal/mol	kJ/mol
	0021	Wettability	—	—	—	—
(Surface Tension)						
	0020	Surface Tension (Miscell)	N/m	N/m	dyn/cm	dyn/cm
	0560	Surface Tension at RT	N/m	N/m	dyn/cm	dyn/cm
(Surface Tension (100-900C))						
	0561	Surface Tension at 100C	N/m	N/m	dyn/cm	dyn/cm
	0562	Surface Tension at 200C	N/m	N/m	dyn/cm	dyn/cm
	0563	Surface Tension at 300C	N/m	N/m	dyn/cm	dyn/cm
	0564	Surface Tension at 400C	N/m	N/m	dyn/cm	dyn/cm
	0565	Surface Tension at 500C	N/m	N/m	dyn/cm	dyn/cm
	0566	Surface Tension at 600C	N/m	N/m	dyn/cm	dyn/cm
	0582	Surface Tension at 650C	N/m	N/m	dyn/cm	dyn/cm
	0567	Surface Tension at 700C	N/m	N/m	dyn/cm	dyn/cm
	0583	Surface Tension at 750C	N/m	N/m	dyn/cm	dyn/cm
	0568	Surface Tension at 800C	N/m	N/m	dyn/cm	dyn/cm
	0584	Surface Tension at 850C	N/m	N/m	dyn/cm	dyn/cm
	0569	Surface Tension at 900C	N/m	N/m	dyn/cm	dyn/cm
	0585	Surface Tension at 950C	N/m	N/m	dyn/cm	dyn/cm
(Surface Tension (1000-2100C))						
	0570	Surface Tension at 1000C	N/m	N/m	dyn/cm	dyn/cm
	0586	Surface Tension at 1050C	N/m	N/m	dyn/cm	dyn/cm
	0571	Surface Tension at 1100C	N/m	N/m	dyn/cm	dyn/cm
	0587	Surface Tension at 1150C	N/m	N/m	dyn/cm	dyn/cm
	0572	Surface Tension at 1200C	N/m	N/m	dyn/cm	dyn/cm
	0588	Surface Tension at 1250C	N/m	N/m	dyn/cm	dyn/cm
	0573	Surface Tension at 1300C	N/m	N/m	dyn/cm	dyn/cm
	0589	Surface Tension at 1350C	N/m	N/m	dyn/cm	dyn/cm
	0574	Surface Tension at 1400C	N/m	N/m	dyn/cm	dyn/cm
	0590	Surface Tension at 1450C	N/m	N/m	dyn/cm	dyn/cm
	0575	Surface Tension at 1500C	N/m	N/m	dyn/cm	dyn/cm
	0591	Surface Tension at 1550C	N/m	N/m	dyn/cm	dyn/cm
	0576	Surface Tension at 1600C	N/m	N/m	dyn/cm	dyn/cm
	0592	Surface Tension at 1650C	N/m	N/m	dyn/cm	dyn/cm
	0577	Surface Tension at 1700C	N/m	N/m	dyn/cm	dyn/cm
	0593	Surface Tension at 1750C	N/m	N/m	dyn/cm	dyn/cm
	0578	Surface Tension at 1800C	N/m	N/m	dyn/cm	dyn/cm
	0579	Surface Tension at 1900C	N/m	N/m	dyn/cm	dyn/cm
	0580	Surface Tension at 2000C	N/m	N/m	dyn/cm	dyn/cm
	0581	Surface Tension at 2100C	N/m	N/m	dyn/cm	dyn/cm

(2) Thermal

ID	Property	common	SI	CGS	psi
Crystallization					
1010	Crystallization	—	—	—	—
1011	Liquidus Temperature	C	K	C	C
1012	Rate of Nucleation	/($m^3 \cdot s$)	/($m^3 \cdot s$)	/($cm^3 \cdot s$)	/($cm^3 \cdot s$)
1013	Velocity of Cryst Growth	um/s	m/s	um/s	um/s
1014	Crystallization Temp	C	K	C	C
1015	Melting Temp of Crystal	C	K	C	C
1016	Phase Separation	—	—	—	—

Thermal Expansion

1040	α -T Curve	—	—	—	—
(Linear Expansion Coeff)					
1020	Expansion Coeff (Typical)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1030	Expansion Coeff (0~100C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1021	Expansion Coeff (0~300C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1023	Expansion Coeff (20~100C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1022	Expansion Coeff (20~300C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1031	Expansion Coeff (20~400C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1035	Expansion Coeff (20~500C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1027	Expansion Coeff (20~TG)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1036	Expansion Coeff (30~300C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1028	Expansion Coeff (30~380C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1024	Expansion Coeff (50~350C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1032	Expansion Coeff (100~200C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1025	Expansion Coeff (100~300C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1033	Expansion Coeff (200~300C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1034	Expansion Coeff (300~400C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1026	Expansion Coeff (-30~70C)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1029	Expansion Coeff X	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
1039	Expansion Coeff (not specified)	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$
(Volumetric Expansion Coeff)					
1051	Volumetric Expansion Coeff	$10^{-7}/K$	$10^{-7}/K$	$10^{-7}/C$	$10^{-7}/C$

Heat Capacity

(Specific Heat)					
1080	Specific Heat (Miscell)	$J/(kg \cdot K)$	$J/(kg \cdot K)$	$cal/(g \cdot C)$	$Btu/(lb \cdot F)$
1601	Specific Heat at <200C	$J/(kg \cdot K)$	$J/(kg \cdot K)$	$cal/(g \cdot C)$	$Btu/(lb \cdot F)$
1602	Specific Heat at -100C	$J/(kg \cdot K)$	$J/(kg \cdot K)$	$cal/(g \cdot C)$	$Btu/(lb \cdot F)$
1600	Specific Heat at 0C	$J/(kg \cdot K)$	$J/(kg \cdot K)$	$cal/(g \cdot C)$	$Btu/(lb \cdot F)$
1603	Specific Heat at RT	$J/(kg \cdot K)$	$J/(kg \cdot K)$	$cal/(g \cdot C)$	$Btu/(lb \cdot F)$
(Specific Heat (100-700C))					
1604	Specific Heat at 100C	$J/(kg \cdot K)$	$J/(kg \cdot K)$	$cal/(g \cdot C)$	$Btu/(lb \cdot F)$
1605	Specific Heat at 200C	$J/(kg \cdot K)$	$J/(kg \cdot K)$	$cal/(g \cdot C)$	$Btu/(lb \cdot F)$
1606	Specific Heat at 300C	$J/(kg \cdot K)$	$J/(kg \cdot K)$	$cal/(g \cdot C)$	$Btu/(lb \cdot F)$
1607	Specific Heat at 400C	$J/(kg \cdot K)$	$J/(kg \cdot K)$	$cal/(g \cdot C)$	$Btu/(lb \cdot F)$

-	ID	Property	common	SI	CGS	psi
	1608	Specific Heat at 500C	J/(kg·K)	J/(kg·K)	cal/(g·C)	Btu/(lb·F)
	1609	Specific Heat at 600C	J/(kg·K)	J/(kg·K)	cal/(g·C)	Btu/(lb·F)
	1610	Specific Heat at 700C	J/(kg·K)	J/(kg·K)	cal/(g·C)	Btu/(lb·F)
	(Specific Heat (800-1500C))					
	1611	Specific Heat at 800C	J/(kg·K)	J/(kg·K)	cal/(g·C)	Btu/(lb·F)
	1612	Specific Heat at 900C	J/(kg·K)	J/(kg·K)	cal/(g·C)	Btu/(lb·F)
	1613	Specific Heat at 1000C	J/(kg·K)	J/(kg·K)	cal/(g·C)	Btu/(lb·F)
	1614	Specific Heat at 1100C	J/(kg·K)	J/(kg·K)	cal/(g·C)	Btu/(lb·F)
	1615	Specific Heat at 1200C	J/(kg·K)	J/(kg·K)	cal/(g·C)	Btu/(lb·F)
	1616	Specific Heat at 1300C	J/(kg·K)	J/(kg·K)	cal/(g·C)	Btu/(lb·F)
	1617	Specific Heat at 1400C	J/(kg·K)	J/(kg·K)	cal/(g·C)	Btu/(lb·F)
	1618	Specific Heat at 1500C	J/(kg·K)	J/(kg·K)	cal/(g·C)	Btu/(lb·F)
	(Molar Specific Heat)					
	1670	Molar Specific Heat (Miscell)	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1671	Molar Specific Heat at <-200C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1672	Molar Specific Heat at -100C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1673	Molar Specific Heat at 0C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1674	Molar Specific Heat at room temp.	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1675	Molar Specific Heat at 100C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1676	Molar Specific Heat at 200C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1677	Molar Specific Heat at 300C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1678	Molar Specific Heat at 400C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1679	Molar Specific Heat at 500C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1680	Molar Specific Heat at 600C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1681	Molar Specific Heat at 700C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1682	Molar Specific Heat at 800C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1683	Molar Specific Heat at 900C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1684	Molar Specific Heat at 1000C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1685	Molar Specific Heat at 1100C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1686	Molar Specific Heat at 1200C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1687	Molar Specific Heat at 1300C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1688	Molar Specific Heat at 1400C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)
	1689	Molar Specific Heat at 1500C	J/(mol·C)	J/(mol·K)	cal/(mol·C)	Btu/(mol·F)

Heat Transfer

	1100	Thermal Diffusivity	cm ² /s	m ² /s	cm ² /s	cm ² /s
	(Thermal Conductivity)					
	1090	Thermal Conductivity (Miscell)	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
	1631	Thermal Conductivity at <-200C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
	1632	Thermal Conductivity at -100C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
	1630	Thermal Conductivity at 0C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
	1633	Thermal Conductivity at RT	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
	(Thermal Conductivity (100-700C))					
	1634	Thermal Conductivity at 100C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)

1635	Thermal Conductivity at 200C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1636	Thermal Conductivity at 300C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1637	Thermal Conductivity at 400C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1638	Thermal Conductivity at 500C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1639	Thermal Conductivity at 600C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1640	Thermal Conductivity at 700C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
(Thermal Conductivity (800-1500C))					
1641	Thermal Conductivity at 800C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1642	Thermal Conductivity at 900C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1643	Thermal Conductivity at 1000C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1644	Thermal Conductivity at 1100C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1645	Thermal Conductivity at 1200C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1646	Thermal Conductivity at 1300C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1647	Thermal Conductivity at 1400C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)
1648	Thermal Conductivity at 1500C	W/(m·K)	W/(m·K)	cal/(cm·s·C)	Btu/(ft·h·F)

Viscosity

(Standard Point (1E1-1E7 dPa·s))

1110	T at 1E1 dPa·s	C	K	C	C
1111	T at 1E2 dPa·s (Melting P)	C	K	C	C
1137	Melting P (Miscell)	C	K	C	C
1129	T at 1E2.5 dPa·s	C	K	C	C
1112	T at 1E3 dPa·s	C	K	C	C
1113	T at 1E4 dPa·s (Working P)	C	K	C	C
1114	T at 1E5 dPa·s (Flow P)	C	K	C	C
1115	T at 1E6 dPa·s (Sealing P)	C	K	C	C
1131	T at 1E7 dPa·s	C	K	C	C

(Standard Point (1E7.5-1E14.5 dPa·s))

1126	T at 1E7.5 dPa·s	C	K	C	C
1116	T at 1E7.6(7.65) dPa·s (Sof P)	C	K	C	C
1135	Sof P (DTA, DSC)	C	K	C	C
1118	Sof P (Deformation P, TMA)	C	K	C	C
1136	Sof P (Miscell)	C	K	C	C
1132	T at 1E8 dPa·s	C	K	C	C
1133	T at 1E9 dPa·s	C	K	C	C
1134	T at 1E10 dPa·s	C	K	C	C
1117	Sag Point	C	K	C	C
1127	T at 1E11 dPa·s	C	K	C	C
1128	T at 1E12 dPa·s	C	K	C	C
1119	T at 1E13 dPa·s (Annealing P)	C	K	C	C
1122	T at 1E14 dPa·s (Strain P)	C	K	C	C
1123	T at 1E14.5 dPa·s (Strain P)	C	K	C	C

(Standard Point X dPa·s)

1124	T at X dPa·s	C	K	C	C
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(Viscosity (100-1000C))

1201	Viscosity at 100C	dPa·s	Pa·s	Poise	g/(cm·s)
1202	Viscosity at 200C	dPa·s	Pa·s	Poise	g/(cm·s)
1203	Viscosity at 300C	dPa·s	Pa·s	Poise	g/(cm·s)
1204	Viscosity at 400C	dPa·s	Pa·s	Poise	g/(cm·s)
1205	Viscosity at 500C	dPa·s	Pa·s	Poise	g/(cm·s)
1206	Viscosity at 600C	dPa·s	Pa·s	Poise	g/(cm·s)
1207	Viscosity at 700C	dPa·s	Pa·s	Poise	g/(cm·s)
1208	Viscosity at 800C	dPa·s	Pa·s	Poise	g/(cm·s)
1209	Viscosity at 900C	dPa·s	Pa·s	Poise	g/(cm·s)
1210	Viscosity at 1000C	dPa·s	Pa·s	Poise	g/(cm·s)

- ID	Property	common	SI	CGS	psi
(Viscosity (1100-1550C))					
1211	Viscosity at 1100C	dPa·s	Pa·s	Poise	g/(cm·s)
1224	Viscosity at 1150C	dPa·s	Pa·s	Poise	g/(cm·s)
1212	Viscosity at 1200C	dPa·s	Pa·s	Poise	g/(cm·s)
1225	Viscosity at 1250C	dPa·s	Pa·s	Poise	g/(cm·s)
1213	Viscosity at 1300C	dPa·s	Pa·s	Poise	g/(cm·s)
1226	Viscosity at 1350C	dPa·s	Pa·s	Poise	g/(cm·s)
1214	Viscosity at 1400C	dPa·s	Pa·s	Poise	g/(cm·s)
1227	Viscosity at 1450C	dPa·s	Pa·s	Poise	g/(cm·s)
1215	Viscosity at 1500C	dPa·s	Pa·s	Poise	g/(cm·s)
1228	Viscosity at 1550C	dPa·s	Pa·s	Poise	g/(cm·s)
(Viscosity (1600-2500C))					
1216	Viscosity at 1600C	dPa·s	Pa·s	Poise	g/(cm·s)
1229	Viscosity at 1650C	dPa·s	Pa·s	Poise	g/(cm·s)
1217	Viscosity at 1700C	dPa·s	Pa·s	Poise	g/(cm·s)
1230	Viscosity at 1750C	dPa·s	Pa·s	Poise	g/(cm·s)
1218	Viscosity at 1800C	dPa·s	Pa·s	Poise	g/(cm·s)
1219	Viscosity at 1900C	dPa·s	Pa·s	Poise	g/(cm·s)
1220	Viscosity at 2000C	dPa·s	Pa·s	Poise	g/(cm·s)
1222	Viscosity at 2200C	dPa·s	Pa·s	Poise	g/(cm·s)
1223	Viscosity at 2500C	dPa·s	Pa·s	Poise	g/(cm·s)
(Viscosity (X C))					
1221	Viscosity at X C	dPa·s	Pa·s	Poise	g/(cm·s)
(Fulcher's Equation)					
1231	Const A of Fulcher Eq (FIG)	log(dPa·s)	log(dPa·s)	log(Poise)	log(dPa·s)
1232	Const B of Fulcher Eq (FIG)	C	K	C	C
1233	Const To of Fulcher Eq (FIG)	C	K	C	C
1235	Min. Temp. of Fulcher Eq (FIG)	C	K	C	C
1236	Max. Temp. of Fulcher Eq (FIG)	C	K	C	C
1237	Min. Viscosity of Fulcher Eq (FIG)	dPa·s	Pa·s	Poise	g/(cm·s)
1238	Max. Viscosity of Fulcher Eq (FIG)	dPa·s	Pa·s	Poise	g/(cm·s)

Diffusion

1370	Ion Exchange	—	—	—	—
1380	Thermotransport	—	—	—	—
(Ion Diffusion D ₀)					
1353	Diffusion Coeff D ₀ (Miscell)	cm ² /s	m ² /s	cm ² /s	cm ² /s
1301	Diffusion Coeff D ₀ of H ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
1303	Diffusion Coeff D ₀ of Li ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
1305	Diffusion Coeff D ₀ of Na ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
1307	Diffusion Coeff D ₀ of K ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
1309	Diffusion Coeff D ₀ of Rb ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
1311	Diffusion Coeff D ₀ of Cs ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
1382	Diffusion Coeff D ₀ of Cu ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
1313	Diffusion Coeff D ₀ of F ⁻	cm ² /s	m ² /s	cm ² /s	cm ² /s
1315	Diffusion Coeff D ₀ of O ²⁻	cm ² /s	m ² /s	cm ² /s	cm ² /s
1317	Diffusion Coeff D ₀ of Ca ²⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
1319	Diffusion Coeff D ₀ of Mg ²⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s

-	ID	Property	common	SI	CGS	psi
	1321	Diffusion Coeff D_0 of Sr^{2+}	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1323	Diffusion Coeff D_0 of Ba^{2+}	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1325	Diffusion Coeff D_0 of Tl^{2+}	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1327	Diffusion Coeff D_0 of Ag^+	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1329	Diffusion Coeff D_0 of Cl^-	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1371	Diffusion Coeff D_0 of Ni^{2+}	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1373	Diffusion Coeff D_0 of Fe^{3+}	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1375	Diffusion Coeff D_0 of Co^{2+}	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1377	Diffusion Coeff D_0 of Si	cm^2/s	m^2/s	cm^2/s	cm^2/s
(Ion Diffusion Ed)						
	1354	Activation Energy Ed of Diff (Miscell)	kJ/mol	J/mol	kcal/mol	kJ/mol
	1302	Activation Energy Ed of Diff H^+	kJ/mol	J/mol	kcal/mol	kJ/mol
	1304	Activation Energy Ed of Diff Li^+	kJ/mol	J/mol	kcal/mol	kJ/mol
	1306	Activation Energy Ed of Diff Na^+	kJ/mol	J/mol	kcal/mol	kJ/mol
	1308	Activation Energy Ed of Diff K^+	kJ/mol	J/mol	kcal/mol	kJ/mol
	1310	Activation Energy Ed of Diff Rb^+	kJ/mol	J/mol	kcal/mol	kJ/mol
	1312	Activation Energy Ed of Diff Cs^+	kJ/mol	J/mol	kcal/mol	kJ/mol
	1383	Activation Energy Ed of Diff Cu^+	kJ/mol	J/mol	kcal/mol	kJ/mol
	1314	Activation Energy Ed of Diff F^-	kJ/mol	J/mol	kcal/mol	kJ/mol
	1316	Activation Energy Ed of Diff O^{2-}	kJ/mol	J/mol	kcal/mol	kJ/mol
	1318	Activation Energy Ed of Diff Ca^{2+}	kJ/mol	J/mol	kcal/mol	kJ/mol
	1320	Activation Energy Ed of Diff Mg^{2+}	kJ/mol	J/mol	kcal/mol	kJ/mol
	1322	Activation Energy Ed of Diff Sr^{2+}	kJ/mol	J/mol	kcal/mol	kJ/mol
	1324	Activation Energy Ed of Diff Ba^{2+}	kJ/mol	J/mol	kcal/mol	kJ/mol
	1326	Activation Energy Ed of Diff Tl^{2+}	kJ/mol	J/mol	kcal/mol	kJ/mol
	1328	Activation Energy Ed of Diff Ag^+	kJ/mol	J/mol	kcal/mol	kJ/mol
	1330	Activation Energy Ed of Diff Cl^-	kJ/mol	J/mol	kcal/mol	kJ/mol
	1372	Activation Energy Ed of Diff Ni^{++}	kJ/mol	J/mol	kcal/mol	kJ/mol
	1374	Activation Energy Ed of Diff Fe^{++}	kJ/mol	J/mol	kcal/mol	kJ/mol
	1376	Activation Energy Ed of Diff Co^{++}	kJ/mol	J/mol	kcal/mol	kJ/mol
	1378	Activation Energy Ed of Diff Si	kJ/mol	J/mol	kcal/mol	kJ/mol
(Atomic, Molecular Diffusion D_0)						
	1331	Diffusion Coeff D_0 of N_2	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1333	Diffusion Coeff D_0 of O_2	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1335	Diffusion Coeff D_0 of H_2O	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1363	Diffusion Coeff D_0 of D_2O	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1379	Diffusion Coeff D_0 of CO_2	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1337	Diffusion Coeff D_0 of He	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1339	Diffusion Coeff D_0 of Ne	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1341	Diffusion Coeff D_0 of Ar	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1343	Diffusion Coeff D_0 of Xe	cm^2/s	m^2/s	cm^2/s	cm^2/s
	1365	Diffusion Coeff Dt of He	cm^2/sK	m^2/sK	cm^2/sK	cm^2/sK
	1367	Diffusion Coeff Dt of Ne	cm^2/sK	m^2/sK	cm^2/sK	cm^2/sK
	1369	Diffusion Coeff Dt of Ar	cm^2/sK	m^2/sK	cm^2/sK	cm^2/sK
(Atomic, Molecular Diffusion Ed)						
	1332	Activation Energy Ed of Diff N_2	kJ/mol	J/mol	kcal/mol	kJ/mol
	1334	Activation Energy Ed of Diff O_2	kJ/mol	J/mol	kcal/mol	kJ/mol
	1336	Activation Energy Ed of Diff H_2O	kJ/mol	J/mol	kcal/mol	kJ/mol

-	ID	Property	common	SI	CGS	psi
	1364	Activation Energy Ed of Diff D ₂ O	kJ/mol	J/mol	kcal/mol	kJ/mol
	1381	Activation Energy Ed of Diff CO ₂	kJ/mol	J/mol	kcal/mol	kJ/mol
	1338	Activation Energy Ed of Diff He	kJ/mol	J/mol	kcal/mol	kJ/mol
	1340	Activation Energy Ed of Diff Ne	kJ/mol	J/mol	kcal/mol	kJ/mol
	1342	Activation Energy Ed of Diff Ar	kJ/mol	J/mol	kcal/mol	kJ/mol
	1344	Activation Energy Ed of Diff Xe	kJ/mol	J/mol	kcal/mol	kJ/mol
	(Ion Exchange D ₀)					
	1345	Diff Coeff Do of Li ⁺ =Na ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
	1347	Diff Coeff Do of Li ⁺ =K ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
	1349	Diff Coeff Do of Na ⁺ =K ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
	1351	Diff Coeff Do of Na ⁺ =Ag ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
	1355	Diff Coeff Do of Na ⁺ =Cu ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
	1357	Diff Coeff Do of Na ⁺ =Tl ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
	1359	Diff Coeff Do of K ⁺ =Tl ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
	1361	Diff Coeff Do of Li ⁺ =Ag ⁺	cm ² /s	m ² /s	cm ² /s	cm ² /s
	(Ion Exchange E _d)					
	1346	Activation Energy Ed of Diff Li ⁺ =Na ⁺	kJ/mol	J/mol	kcal/mol	kJ/mol
	1348	Activation Energy Ed of Diff Li ⁺ =K ⁺	kJ/mol	J/mol	kcal/mol	kJ/mol
	1350	Activation Energy Ed of Diff Na ⁺ =K ⁺	kJ/mol	J/mol	kcal/mol	kJ/mol
	1352	Activation Energy Ed of Diff Na ⁺ =Ag ⁺	kJ/mol	J/mol	kcal/mol	kJ/mol
	1356	Activation Energy Ed of Dif Na ⁺ =Cu ⁺	kJ/mol	J/mol	kcal/mol	kJ/mol
	1358	Activation Energy Ed of Diff Na ⁺ =Tl ⁺	kJ/mol	J/mol	kcal/mol	kJ/mol
	1360	Activation Energy Ed of Diff K ⁺ =Tl ⁺	kJ/mol	J/mol	kcal/mol	kJ/mol
	1362	Activation Energy Ed of Diff Li ⁺ =Ag ⁺	kJ/mol	J/mol	kcal/mol	kJ/mol
	(Temp Range of Do and Ed)					
	1392	Min. Temp of Diffusion Formula	C	K	C	C
	1393	Max. Temp of Diffusion Formula	C	K	C	C

Permeability

(Permeability)

1411	Permeability He	#	#	#	#
1412	Permeability Ne	#	#	#	#
1413	Permeability Ar	#	#	#	#
1414	Permeability N	#	#	#	#
1415	Permeability O	#	#	#	#
1416	Permeability H	#	#	#	#
1417	Permeability X	#	#	#	#

(Activation Energy Ep of Permeability)

1421	Activation Energy Ep of Prem He	kJ/mol	J/mol	kcal/mol	kJ/mol
1422	Activation Energy Ep of Prem Ne	kJ/mol	J/mol	kcal/mol	kJ/mol
1423	Activation Energy Ep of Prem Ar	kJ/mol	J/mol	kcal/mol	kJ/mol
1424	Activation Energy Ep of Prem N	kJ/mol	J/mol	kcal/mol	kJ/mol
1425	Activation Energy Ep of Prem O	kJ/mol	J/mol	kcal/mol	kJ/mol
1426	Activation Energy Ep of Prem H	kJ/mol	J/mol	kcal/mol	kJ/mol
1427	Activation Energy Ep of Prem X	kJ/mol	J/mol	kcal/mol	kJ/mol

(Permeability Coeff Po)

1431	Permeability Coeff Po of He	atom/(s·cm·K·atm)	atom/(s·m·K·atm)	atom/(s·cm·K·atm)	atom/(s·cm·K·atm)
1432	Permeability Coeff Po of Ne	atom/(s·cm·K·atm)	atom/(s·m·K·atm)	atom/(s·cm·K·atm)	atom/(s·cm·K·atm)
1433	Permeability Coeff Po of Ar	atom/(s·cm·K·atm)	atom/(s·m·K·atm)	atom/(s·cm·K·atm)	atom/(s·cm·K·atm)

ID	Property	common	SI	CGS	psi
Solubility					
1511	Solubility He	#	#	#	#
1512	Solubility Ne	#	#	#	#
1513	Solubility O ₂	#	#	#	#
1514	Solubility N ₂	#	#	#	#
1515	Solubility H ₂ O	#	#	#	#
1516	Solubility CO ₂	#	#	#	#
1517	Solubility SO ₃	#	#	#	#
1518	Solubility X	#	#	#	#
1501	Solubility/mol He	cm ³ /(mol·atm)	m ³ /(mol·atm)	cm ³ /(mol·atm)	in ³ /(mol·atm)
1502	Solubility/mol Ne	cm ³ /(mol·atm)	m ³ /(mol·atm)	cm ³ /(mol·atm)	in ³ /(mol·atm)
1503	Solubility/mol O ₂	cm ³ /(mol·atm)	m ³ /(mol·atm)	cm ³ /(mol·atm)	in ³ /(mol·atm)
1504	Solubility/mol N ₂	cm ³ /(mol·atm)	m ³ /(mol·atm)	cm ³ /(mol·atm)	in ³ /(mol·atm)
1505	Solubility/mol H ₂ O	cm ³ /(mol·atm)	m ³ /(mol·atm)	cm ³ /(mol·atm)	in ³ /(mol·atm)
1506	Solubility/mol CO ₂	cm ³ /(mol·atm)	m ³ /(mol·atm)	cm ³ /(mol·atm)	in ³ /(mol·atm)
1507	Solubility/mol SO ₃	cm ³ /(mol·atm)	m ³ /(mol·atm)	cm ³ /(mol·atm)	in ³ /(mol·atm)
1508	Solubility/mol X	cm ³ /(mol·atm)	m ³ /(mol·atm)	cm ³ /(mol·atm)	in ³ /(mol·atm)
1521	Solubility/vol He	cm ³ /cm ³	m ³ /m ³	cm ³ /cm ³	in ³ /in ³
1522	Solubility/vol Ne	cm ³ /cm ³	m ³ /m ³	cm ³ /cm ³	in ³ /in ³
1523	Solubility/vol O ₂	cm ³ /cm ³	m ³ /m ³	cm ³ /cm ³	in ³ /in ³
1524	Solubility/vol N ₂	cm ³ /cm ³	m ³ /m ³	cm ³ /cm ³	in ³ /in ³
1525	Solubility/vol H ₂ O	cm ³ /cm ³	m ³ /m ³	cm ³ /cm ³	in ³ /in ³
1526	Solubility/vol CO ₂	cm ³ /cm ³	m ³ /m ³	cm ³ /cm ³	in ³ /in ³
1527	Solubility/vol SO ₃	cm ³ /cm ³	m ³ /m ³	cm ³ /cm ³	in ³ /in ³
1528	Solubility/vol X	cm ³ /cm ³	m ³ /m ³	cm ³ /cm ³	in ³ /in ³
1571	Solubility Coeff S ₀ of He	atom/(cm ³ ·atm)	atom/(m ³ ·atm)	atom/(cm ³ ·atm)	atom/(cm ³ ·atm)
1572	Solubility Coeff S ₀ of Ne	atom/(cm ³ ·atm)	atom/(m ³ ·atm)	atom/(cm ³ ·atm)	atom/(cm ³ ·atm)
1573	Solubility Coeff S ₀ of Ar	atom/(cm ³ ·atm)	atom/(m ³ ·atm)	atom/(cm ³ ·atm)	atom/(cm ³ ·atm)
1581	Activation Energy Es of Sol He	kJ/mol	J/mol	kcal/mol	kJ/mol
1582	Activation Energy Es of Sol Ne	kJ/mol	J/mol	kcal/mol	kJ/mol
1583	Activation Energy Es of Sol Ar	kJ/mol	J/mol	kcal/mol	kJ/mol

Glass Transition Point

1140	Glass Transition Point (Typical)	Tg	C	K	C	C
1120	Tg (DTA)		C	K	C	C
1121	Tg (Expansion)		C	K	C	C
1125	Tg (Miscell)		C	K	C	C

Others

1390	Thermal Shock Resistance (ΔT)		deg	deg	deg	deg
1391	Thermal Endurance		C	K	C	C
1530	Vaporization		—	—	—	—
1550	Meltability		—	—	—	—
1560	Sintering		—	—	—	—
1531	Vapour Pressure (Miscell)		torr	Pa	mmHg	psi
1532	Vapour Pressure 1000C		torr	Pa	mmHg	psi
1533	Vapour Pressure 1100 C		torr	Pa	mmHg	psi
1534	Vapour Pressure 1200 C		torr	Pa	mmHg	psi
1535	Vapour Pressure 1300 C		torr	Pa	mmHg	psi
1536	Vapour Pressure 1400 C		torr	Pa	mmHg	psi
1537	Vapour Pressure 1500 C		torr	Pa	mmHg	psi

(3) Optical

-	ID	Property	common	SI	CGS	psi
Refraction						
	(Refractive Index (Typical))					
	2010	Refractive Index (Typical)	—	—	—	—
	(Refractive Index UV)					
	2030	Refract Index <300nm	—	—	—	—
	2011	Refract Index 365.0nm	—	—	—	—
	(Refractive Index Visible)					
	2012	Refract Index 404.7nm	—	—	—	—
	2013	Refract Index 435.8nm g	—	—	—	—
	2014	Refract Index 480.0nm F'	—	—	—	—
	2015	Refract Index 486.1nm F	—	—	—	—
	2016	Refract Index 546.1nm e	—	—	—	—
	2017	Refract Index 587.6nm d	—	—	—	—
	2018	Refract Index 589.3nm D	—	—	—	—
	2028	Refract Index 632.8nm He-Ne	—	—	—	—
	2019	Refract Index 643.8nm C'	—	—	—	—
	2020	Refract Index 656.3nm C	—	—	—	—
	2021	Refract Index 706.5nm	—	—	—	—
	2035	Refract Index (Miscell)	—	—	—	—
	(Refractive Index IR)					
	2022	Refract Index 852.1nm	—	—	—	—
	2023	Refract Index 1014.0nm	—	—	—	—
	2024	Refract Index 1um	—	—	—	—
	2025	Refract Index 2um	—	—	—	—
	2031	Refract Index 3um	—	—	—	—
	2026	Refract Index 5um	—	—	—	—
	2032	Refract Index 8um	—	—	—	—
	2027	Refract Index 10um	—	—	—	—
	2033	Refract Index 11um	—	—	—	—
	2034	Refract Index 12um	—	—	—	—
	(Refractive Index at Specified condition)					
	2029	Ref Index at Specified cond	—	—	—	—
	(Temp. Dependence of Refractive Index)					
	2061	Temp Coeff of RI e-line -20~0C	10 ⁻⁶ /K	10 ⁻⁶ /K	/C	/C
	2062	Temp Coeff of RI e-line 0~20C	10 ⁻⁶ /K	10 ⁻⁶ /K	/C	/C
	2063	Temp Coeff of RI e-line 20~40C	10 ⁻⁶ /K	10 ⁻⁶ /K	/C	/C
	2064	Temp Coeff of RI Other Data	10 ⁻⁶ /K	10 ⁻⁶ /K	/C	/C
	2480	Thermo Optical Constant	10 ⁻⁶ /K	10 ⁻⁶ /K	/C	/C
	(Graded Index)					
	2040	Graded Index	—	—	—	—
	(Abbe Value)					
	2051	Abbe Value (nd-1)/(nF-nC)	—	—	—	—
	2052	Abbe Value (ne-1)/(nF-nC)	—	—	—	—

-	ID	Property	common	SI	CGS	psi
	2053	Abbe Value Other Data	—	—	—	—
	(Constant of Sellmeier Formula)					
	2081	Const of Sellmeier F A1	—	—	—	—
	2082	Const of Sellmeier F B1	—	—	—	—
	2083	Const of Sellmeier F A2	—	—	—	—
	2084	Const of Sellmeier F B2	—	—	—	—
	2085	Const of Sellmeier F A3	—	—	—	—
	2086	Const of Sellmeier F B3	—	—	—	—
	(Constant of Dispersion Formula (n-λ curve))					
	2101	Const of Disp F A0	—	—	—	—
	2102	Const of Disp F A1	—	—	—	—
	2103	Const of Disp F A2	—	—	—	—
	2104	Const of Disp F A3	—	—	—	—
	2105	Const of Disp F A4	—	—	—	—
	2106	Const of Disp F A5	—	—	—	—
	(Mean Dispersion)					
	2111	Mean Dispersion F-C	—	—	—	—
	2112	Mean Dispersion g-d	—	—	—	—
	2113	Mean Dispersion Other Data	—	—	—	—
	(Relative Partial Dispersion)					
	2115	Relative Partial Disp (d-C)/(F-C)	—	—	—	—
	2116	Relative Partial Disp (g-F)/(F-C)	—	—	—	—
	2118	Relative Partial Disp (C-r)/(F-C)	—	—	—	—
	2119	Relative Partial Disp (C'-r)/(F'-C')	—	—	—	—
	2121	Relative Partial Disp (d-C)/(F'-C')	—	—	—	—
	2122	Relative Partial Disp (F-e)/(F-C)	—	—	—	—
	2123	Relative Partial Disp (F'-e)/(F'-C')	—	—	—	—
	2124	Relative Partial Disp (g-d)/(F-C)	—	—	—	—
	2125	Relative Partial Disp (g-d)/(F'-C')	—	—	—	—
	2126	Relative Partial Disp (g-F)/(F'-C')	—	—	—	—
	2127	Relative Partial Disp (h-g)/(F'-C')	—	—	—	—
	2117	Relative Partial Disp Other Data	—	—	—	—
	2120	Normal Partial Disp	—	—	—	—
	2130	Deviation of Relative Partial Disp	—	—	—	—

Transmission

	2150	Polarization	—	—	—	—
	(Transmittance (FIG))					
	2218	UV/IR Transmission Spectrum	—	—	—	—
	(Transmittance UV)					
	2200	Transmittance UV	%	—	—	—
	(Transmittance Visible)					
	2201	Transmittance 400~500nm	%	—	—	—

-	ID	Property	common	SI	CGS	psi
	2202	Transmittance 500~600nm	%	—	—	—
	2203	Transmittance 600~700nm	%	—	—	—
	2210	Transmittance Visible	%	—	—	—
	(Transmittance IR)					
	2204	Transmittance 700~1000nm	%	—	—	—
	2205	Transmittance 1~2um	%	—	—	—
	2206	Transmittance 2~5um	%	—	—	—
	2207	Transmittance 5~10um	%	—	—	—
	2208	Transmittance 10um	%	—	—	—
	2209	Transmittance IR	%	—	—	—
	(Transmittance Other Data)					
	2211	Transmittance Other Data	%	—	—	—
	2212	Transmittance Solar	%	—	—	—
	2213	Transmittance Illuminant A	%	—	—	—
	2214	Transmittance Illuminant C	%	—	—	—
	(Internal Transmittance (Miscellaneous))					
	2300	Internal Trans (Miscell)	%	—	—	—
	(Internal Transmittance UV)					
	2290	Internal Trans UV	%	—	—	—
	(Internal Transmittance Visible)					
	2291	Int Trans 400~500nm	%	—	—	—
	2292	Int Trans 500~600nm	%	—	—	—
	2293	Int Trans 600~700nm	%	—	—	—
	(Internal Transmittance IR)					
	2294	Int Trans 700~1000nm	%	—	—	—
	2295	Int Trans 1~2um	%	—	—	—
	2296	Int Trans 2~5um	%	—	—	—
	2297	Int Trans 5~10um	%	—	—	—
	2298	Int Trans 10um	%	—	—	—
	2299	Int Trans IR	%	—	—	—
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	Absorption					
	2901	X-Ray Absorption Coeff	/cm	/m	/cm	/cm
	2906	Neutron Absorption	—	—	—	—
	2282	Optical Gap	eV	eV	eV	eV
	(Absorption Edge)					
	2280	Absorption Edge UV	nm	m	nm	nm
	2281	Absorption Edge IR	um	m	nm	nm
	2861	Cut-off Wavelength	um	m	um	um
	(Absorption (FIG))					
	2278	Absorption Spectrum (UV~IR)	—	—	—	—

-	ID	Property	common	SI	CGS	psi
	(Absorbance UV)					
	2240	Absorbance UV	—	—	—	—
	(Absorbance Visible)					
	2241	Absorbance 400~500nm	—	—	—	—
	2242	Absorbance 500~600nm	—	—	—	—
	2243	Absorbance 600~700nm	—	—	—	—
	2251	Absorbance Visible	—	—	—	—
	(Absorbance IR)					
	2244	Absorbance 700~1000nm	—	—	—	—
	2245	Absorbance 1~2um	—	—	—	—
	2246	Absorbance 2~5um	—	—	—	—
	2247	Absorbance 5~10um	—	—	—	—
	2248	Absorbance 10um	—	—	—	—
	2249	Absorbance IR	—	—	—	—
	(Absorbance Other Data)					
	2250	Absorbance Other Data	—	—	—	—
	(Absorption Coefficient UV)					
	2260	Absorption Coeff UV	/cm	/m	/cm	/cm
	(Absorption Coefficient Visible)					
	2261	Absorption Coeff 400~500nm	/cm	/m	/cm	/cm
	2262	Absorption Coeff 500~600nm	/cm	/m	/cm	/cm
	2263	Absorption Coeff 600~700nm	/cm	/m	/cm	/cm
	2271	Absorption Coeff Visible	/cm	/m	/cm	/cm
	(Absorption Coefficient IR)					
	2264	Absorption Coeff 700~1000nm	/cm	/m	/cm	/cm
	2265	Absorption Coeff 1~2um	/cm	/m	/cm	/cm
	2266	Absorption Coeff 2~5um	/cm	/m	/cm	/cm
	2267	Absorption Coeff 5~10um	/cm	/m	/cm	/cm
	2268	Absorption Coeff 10um	/cm	/m	/cm	/cm
	2269	Absorption Coeff IR	/cm	/m	/cm	/cm
	(Absorption Coefficient Other Data)					
	2270	Absorption Coeff Other Data	/cm	/m	/cm	/cm
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	Color					
	2370	Color Code	—	—	—	—
	2371	Dominant Wave Length	nm	m	nm	nm
	2372	Color Temperature	C	K	C	C
	2373	Chromaticity x	—	—	—	—
	2374	Chromaticity y	—	—	—	—
	2375	Chromaticity Stimulus Y	—	—	—	—
	2376	Color Purity	—	—	—	—
	(Color)					
	2350	Color (Miscell)	—	—	—	—

-	ID	Property	common	SI	CGS	psi
	2351	Color (Red)	—	—	—	—
	2352	Color (Orange)	—	—	—	—
	2353	Color (Yellow)	—	—	—	—
	2354	Color (Green)	—	—	—	—
	2355	Color (Blue)	—	—	—	—
	2356	Color (Violet)	—	—	—	—
	2357	Color (Black)	—	—	—	—
	2358	Color (Gray)	—	—	—	—
	2359	Color (White)	—	—	—	—
	2360	Color (Brown)	—	—	—	—
	2361	Color (Other)	—	—	—	—

Scattering

(Scattering (Miscellaneous))

2340	Scattering (Miscell)	#	#	#	#
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(Scattering UV)

2330	Scattering UV	#	#	#	#
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(Scattering Visible)

2331	Scattering 400~500nm	#	#	#	#
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2332	Scattering 500~600nm	#	#	#	#
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2333	Scattering 600~700nm	#	#	#	#
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(Scattering IR)

2334	Scattering 700~1000nm	#	#	#	#
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2335	Scattering 1~2um	#	#	#	#
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2336	Scattering 2~5um	#	#	#	#
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2337	Scattering 5~10um	#	#	#	#
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2338	Scattering 10um	#	#	#	#
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2339	Scattering IR	#	#	#	#
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Reflection

(Reflectance (FIG))

2398	Reflectance Spectrum (UV ~ IR)	—	—	—	—
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(Reflectance (Miscellaneous))

2390	Reflectance (Miscell)	%	—	—	—
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(Reflectance UV)

2380	Reflectance UV	%	—	—	—
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(Reflectance Visible)

2381	Reflectance 400~500nm	%	—	—	—
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2382	Reflectance 500~600nm	%	—	—	—
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2383	Reflectance 600~700nm	%	—	—	—
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(Reflectance IR)

2384	Reflectance 700~1000nm	%	—	—	—
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2385	Reflectance 1~2um	%	—	—	—
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2386	Reflectance 2~5um	%	—	—	—
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-	ID	Property	common	SI	CGS	psi
	2387	Reflectance 5~10um	%	—	—	—
	2388	Reflectance 10um	%	—	—	—
	2389	Reflectance IR	%	—	—	—
Radiation						
	2500	Emissivity	—	—	—	—
	2509	Emissivity Spectrum (FIG)	—	—	—	—
External Induced						
	2400	Fluorescence	—	—	—	—
	2401	Life Time of Fluorescence	s	s	s	s
	2405	Luminescence	—	—	—	—
	2406	Thermoluminescence	—	—	—	—
	2407	Upconversion	—	—	—	—
	2140	Stress Optical Coeff	TPa ⁻¹	Pa ⁻¹	nm • cm/kgf	Pa ⁻¹
	2141	Ref Index of Parallel to Stress	—	—	—	—
	2142	Ref Index of Perpend to Stress	—	—	—	—
	2445	Build up Ratio	—	—	—	—
	2446	Photo Hole Burning	—	—	—	—
	2450	Kerr Constant	#	#	#	#
	2460	Acousto Opt Fig of Merit	—	—	—	—
	2470	Photo Conduction	—	—	—	—
	2490	Verdet Constant	rad/(T • m)	rad/(T • m)	min/(Oe • cm)	min/(Oe • cm)
	(Birefringence)					
	2850	Birefringence (Typical)	nm/m	nm/m	nm/cm	nm/cm
	2851	Birefringence 0.63um	nm/m	nm/m	nm/cm	nm/cm
	2852	Birefringence 0.85um	nm/m	nm/m	nm/cm	nm/cm
	2853	Birefringence 1.30um	nm/m	nm/m	nm/cm	nm/cm
	2854	Birefringence X um	nm/m	nm/m	nm/cm	nm/cm
	(Photoinduced)					
	2435	Photoinduced Stress	Pa	Pa	kgf/cm ²	psi
	2436	Photoind Change in Ref Index	—	—	—	—
	2420	Solarization Hg Lamp	—	—	—	—
	2421	Solarization Other Data	—	—	—	—
	(Browning)					
	2902	Electron Browning	—	—	—	—
	2903	G-Ray Radiation Browning	—	—	—	—
	2904	X-Ray Browning	—	—	—	—
	2905	UV Browning	—	—	—	—
	2907	Neutron Browning	—	—	—	—

-	ID	Property	common	SI	CGS	psi
	2422	Photo Bleaching	—	—	—	—
	2430	Photosensitivity	—	—	—	—
	2431	Photodarkening	—	—	—	—
	2432	Photodoping	—	—	—	—
	(Chromism)					
	2440	Photochromism	—	—	—	—
	2443	Thermochromism	—	—	—	—
	2444	Electrochromism	—	—	—	—

Laser Optics

	2410	Laser	—	—	—	—
	2411	Crosssection of Stimu Emission	cm ²	m ²	cm ²	cm ²
	2412	Gain Constant	#	#	#	#
	2413	Slope Efficiency	%	—	—	—
	2414	Threshold Value	#	#	#	#
	2415	Temp Coeff of Optical Path	—	—	—	—

Fiber Optics

	2846	Rayleigh Coeff	dB/ (km • um ⁴)	dB/ (km • um ⁴)	dB/ (km • um ⁴)	dB/ (km • um ⁴)
	2871	Fiber Grating	—	—	—	—
	2872	Fiber Amplification	—	—	—	—
	(Transmission Loss)					
	2801	Transmission Loss (Miscell)	dB/km	dB/m	dB/km	dB/km
	2802	Transmission Loss 0.63um	dB/km	dB/m	dB/km	dB/km
	2803	Transmission Loss 0.85um	dB/km	dB/m	dB/km	dB/km
	2804	Transmission Loss 1.30um	dB/km	dB/m	dB/km	dB/km
	2805	Transmission Loss 1.55um	dB/km	dB/m	dB/km	dB/km
	2806	Transmission Loss 2.90um	dB/km	dB/m	dB/km	dB/km
	2807	Transmission Loss X um	dB/km	dB/m	dB/km	dB/km
	(Numerical Aperture)					
	2810	Numerical Aperture (Miscell)	—	—	—	—
	2811	Numerical Aperture 0.85um	—	—	—	—
	2812	Numerical Aperture 1.30um	—	—	—	—
	2813	Numerical Aperture X um	—	—	—	—
	(Transmission Band)					
	2820	Transmission Band (Miscell)	MHz • km	Hz • m	MHz • km	MHz • km
	2821	Transmission Band 0.85um	MHz • km	Hz • m	MHz • km	MHz • km
	2822	Trancmission Band 1.30um	MHz • km	Hz • m	MHz • km	MHz • km
	2823	Transmission Band X um	MHz • km	Hz • m	MHz • km	MHz • km

-	ID	Property	common	SI	CGS	psi
	(Mode Field Diameter)					
	2830	Mode Field Dia (Miscell)	um	m	um	um
	2831	Mode Field Dia 1.30um	um	m	um	um
	2832	Mode Field Dia 1.55um	um	m	um	um
	2833	Mode Field Dia X um	um	m	um	um
	(Dispersion)					
	2864	Dispersion 1.30um	ps/(km·nm)	ps/(km·nm)	ps/(km·nm)	ps/(km·nm)
	2865	Dispersion 1.55um	ps/(km·nm)	ps/(km·nm)	ps/(km·nm)	ps/(km·nm)
	2863	Dispersion (Miscell)	ps/(km·nm)	ps/(km·nm)	ps/(km·nm)	ps/(km·nm)
	2862	Zero Disp Wavelength	um	m	um	um
	(Polarization Cross Talk)					
	2840	Polari Cross Talk (Miscell)	dB	dB	dB	dB
	2841	Polari Cross Talk 0.63um	dB	dB	dB	dB
	2842	Polari Cross Talk 0.85um	dB	dB	dB	dB
	2843	Polari Cross Talk 1.30um	dB	dB	dB	dB
	2844	Porari Cross Talk X um	dB	dB	dB	dB

Non-linear Optics

	2161	Nonlinear Opt Property	#	#	#	#
	2162	Nonlinear Response Time	s	s	s	s
	2164	3rd Harmonic Generation (Miscell)	#	#	#	#
	2163	Nonlinear Susceptibility $\chi^{(3)}$	esu	m^2/V^2	esu	esu
	2165	2nd Harmonic Generation (Miscell)	#	#	#	#
	2160	Nonlinear Ref Index n_2	esu	m^2/W	esu	esu
	2167	Electrooptical Effect	#	#	#	#

(4) Electrical, Magnetic

-	ID	Property	common	SI	CGS	psi
Conductive						
	3305	Super Ionic Conduction	#	#	#	#
	3300	Super Conduction	-	-	-	-
	3117	Temp for 1E8 Ohm·cm	C	K	C	C
	3118	Surface Resistance	Ohm/sq	Ohm/sq	Ohm/sq	Ohm/sq
(Electric Conductivity (Miscell))						
	3010	Electric Conduct (Miscell)	S/cm	S/m	S/cm	S/cm
(Electric Conductivity (0-150C))						
	3011	Electric Conduct 0C	S/cm	S/m	S/cm	S/cm
	3012	Electric Conduct RT	S/cm	S/m	S/cm	S/cm
	3014	Electric Conduct 50C	S/cm	S/m	S/cm	S/cm
	3015	Electric Conduct 100C	S/cm	S/m	S/cm	S/cm
	3016	Electric Conduct 150C	S/cm	S/m	S/cm	S/cm
(Electric Conductivity (200-900C))						
	3017	Electric Conduct 200C	S/cm	S/m	S/cm	S/cm
	3018	Electric Conduct 250C	S/cm	S/m	S/cm	S/cm
	3019	Electric Conduct 300C	S/cm	S/m	S/cm	S/cm
	3020	Electric Conduct 350C	S/cm	S/m	S/cm	S/cm
	3021	Electric Conduct 400C	S/cm	S/m	S/cm	S/cm
	3022	Electric Conduct 500C	S/cm	S/m	S/cm	S/cm
	3023	Electric Conduct 600C	S/cm	S/m	S/cm	S/cm
	3024	Electric Conduct 700C	S/cm	S/m	S/cm	S/cm
	3025	Electric Conduct 800C	S/cm	S/m	S/cm	S/cm
	3026	Electric Conduct 900C	S/cm	S/m	S/cm	S/cm
(Electric Conductivity (1000-1900C))						
	3027	Electric Conduct 1000C	S/cm	S/m	S/cm	S/cm
	3028	Electric Conduct 1100C	S/cm	S/m	S/cm	S/cm
	3029	Electric Conduct 1200C	S/cm	S/m	S/cm	S/cm
	3030	Electric Conduct 1300C	S/cm	S/m	S/cm	S/cm
	3031	Electric Conduct 1400C	S/cm	S/m	S/cm	S/cm
	3032	Electric Conduct 1500C	S/cm	S/m	S/cm	S/cm
	3033	Electric Conduct 1600C	S/cm	S/m	S/cm	S/cm
	3034	Electric Conduct 1700C	S/cm	S/m	S/cm	S/cm
	3035	Electric Conduct 1800C	S/cm	S/m	S/cm	S/cm
	3036	Electric Conduct 1900C	S/cm	S/m	S/cm	S/cm
(Coeff. of Electric Conductivity Formula (FIG))						
	3041	Coeff So of Electric Cond Fomula A	S/cm	S/m	S/cm	S/cm
	3042	So at Low Temp	S/cm	S/m	S/cm	S/cm
	3043	So at High Temp	S/cm	S/m	S/cm	S/cm
	3044	So Other Data	S/cm	S/m	S/cm	S/cm
	3049	Coeff Co of Electric Cond Fomula B	SK/cm	SK/m	SK/cm	SK/cm

ID	Property	common	SI	CGS	psi
(Activation Energy of Electric Conductivity Formula (FIG))					
3045	Activation Energy of Electric Cond E	eV	J/mol	kcal/mol	eV
3046	E at Low Temp	eV	J/mol	kcal/mol	eV
3047	E at High Temp	eV	J/mol	kcal/mol	eV
3048	E Other Data	eV	J/mol	kcal/mol	eV
(DC Vol Resistivity (Miscell))					
3050	DC Vol Resistivity (Miscell)	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
(DC Vol Resistivity (0-150C))					
3051	DC Vol Resistivity 0C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3052	DC Vol Resistivity RT	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3054	DC Vol Resistivity 50C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3055	DC Vol Resistivity 100C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3056	DC Vol Resistivity 150C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
(DC Vol Resistivity (200-900C))					
3057	DC Vol Resistivity 200C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3058	DC Vol Resistivity 250C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3059	DC Vol Resistivity 300C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3060	DC Vol Resistivity 350C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3061	DC Vol Resistivity 400C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3062	DC Vol Resistivity 500C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3063	DC Vol Resistivity 600C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3064	DC Vol Resistivity 700C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3065	DC Vol Resistivity 800C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3066	DC Vol Resistivity 900C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
(DC Vol Resistivity (1000-1900C))					
3067	DC Vol Resistivity 1000C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3068	DC Vol Resistivity 1100C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3069	DC Vol Resistivity 1200C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3070	DC Vol Resistivity 1300C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3071	DC Vol Resistivity 1400C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3072	DC Vol Resistivity 1500C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3073	DC Vol Resistivity 1600C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3074	DC Vol Resistivity 1700C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3075	DC Vol Resistivity 1800C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3076	DC Vol Resistivity 1900C	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
(DC Vol Resist Formula (FIG))					
3077	Coeff of DC Vol Resist Ro	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm
3078	Activation Energy of DC Vol Resist E	eV	J/mol	kcal/mol	eV
(AC Vol Resistivity (Miscell))					
3090	AC Vol Resistivity (Miscell)	Ohm•cm	Ohm•m	Ohm•cm	Ohm•cm

- ID	Property	common	SI	CGS	psi
(AC Vol Resistivity (0-150C))					
3091	AC Vol Resistivity 0C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3092	AC Vol Resistivity RT	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3094	AC Vol Resistivity 50C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3095	AC Vol Resistivity 100C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3096	AC Vol Resistivity 150C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
(AC Vol Resistivity (200-900C))					
3097	AC Vol Resistivity 200C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3098	AC Vol Resistivity 250C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3099	AC Vol Resistivity 300C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3100	AC Vol Resistivity 350C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3101	AC Vol Resistivity 400C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3102	AC Vol Resistivity 500C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3103	AC Vol Resistivity 600C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3104	AC Vol Resistivity 700C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3105	AC Vol Resistivity 800C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3106	AC Vol Resistivity 900C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
(AC Vol Resistivity (1000-1900C))					
3107	AC Vol Resistivity 1000C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3108	AC Vol Resistivity 1100C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3109	AC Vol Resistivity 1200C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3110	AC Vol Resistivity 1300C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3111	AC Vol Resistivity 1400C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3112	AC Vol Resistivity 1500C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3113	AC Vol Resistivity 1600C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3114	AC Vol Resistivity 1700C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3115	AC Vol Resistivity 1800C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3116	AC Vol Resistivity 1900C	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
(AC Vol Resist Formula (FIG))					
3085	Coeff of AC Vol Resist Ro	Ohm·cm	Ohm·m	Ohm·cm	Ohm·cm
3086	Activation Energy of AC Vol Resist E	eV	J/mol	kcal/mol	eV

Dielectric

3320	Electric Polarization	#	#	#	#
3180	DC Breakdown Voltage (Miscell)	#	#	#	#
3188	DC Breakdown Voltage	kV/mm	kV/m	kV/mm	kV/mil
(Loss Tangent (Miscell))					
3120	Loss Tangent (Miscell)	%	—	—	—
(Loss Tangent 1kHz)					
3121	Loss Tangent 1kHz 0C	%	—	—	—
3122	Loss Tangent 1kHz RT	%	—	—	—
3124	Loss Tangent 1kHz 50C	%	—	—	—
3125	Loss Tangent 1kHz 100C	%	—	—	—

-	ID	Property	common	SI	CGS	psi
	3126	Loss Tangent 1kHz 150C	%	—	—	—
	3127	Loss Tangent 1kHz 200C	%	—	—	—
	3128	Loss Tangent 1kHz 250C	%	—	—	—
	3129	Loss Tangent 1kHz 300C	%	—	—	—
	3152	Loss Tangent 1kHz 500C	%	—	—	—
	3130	Loss Tangent 1kHz XC	%	—	—	—
	(Loss Tangent 1MHz)					
	3131	Loss Tangent 1MHz 0C	%	—	—	—
	3132	Loss Tangent 1MHz RT	%	—	—	—
	3134	Loss Tangent 1MHz 50C	%	—	—	—
	3135	Loss Tangent 1MHz 100C	%	—	—	—
	3136	Loss Tangent 1MHz 150C	%	—	—	—
	3137	Loss Tangent 1MHz 200C	%	—	—	—
	3138	Loss Tangent 1MHz 250C	%	—	—	—
	3139	Loss Tangent 1MHz 300C	%	—	—	—
	3140	Loss Tangent 1MHz XC	%	—	—	—
	(Loss Tangent 1GHz)					
	3141	Loss Tangent 1GHz 0C	%	—	—	—
	3142	Loss Tangent 1GHz RT	%	—	—	—
	3144	Loss Tangent 1GHz 50C	%	—	—	—
	3145	Loss Tangent 1GHz 100C	%	—	—	—
	3146	Loss Tangent 1GHz 150C	%	—	—	—
	3147	Loss Tangent 1GHz 200C	%	—	—	—
	3148	Loss Tangent 1GHz 250C	%	—	—	—
	3149	Loss Tangent 1GHz 300C	%	—	—	—
	3150	Loss Tangent 1GHz XC	%	—	—	—
	(Loss Tangent YHz XC)					
	3151	Loss Tangent YHz XC	%	—	—	—
	(Dielectric Constant)					
	3174	Dielectric Const (Typical)	—	—	—	—
	3175	Dielectric Const 60Hz	—	—	—	—
	3176	Dielectric Const 100Hz	—	—	—	—
	3170	Dielectric Const 1kHz	—	—	—	—
	3177	Dielectric Const 10kHz	—	—	—	—
	3172	Dielectric Const 100kHz	—	—	—	—
	3178	Dielectric Const 1MHz	—	—	—	—
	3171	Dielectric Const 1GHz	—	—	—	—
	3179	Dielectric Const 3GHz	—	—	—	—
	3181	Dielectric Const 10GHz	—	—	—	—
	3173	Dielectric Const Other Data	—	—	—	—
	3189	Dielectric Const (not specified)	—	—	—	—

-	ID	Property	common	SI	CGS	psi
Functional						
	3190	Photoelectric Conversion	—	—	—	—
	3195	Thermoelectric Power	mV/K	mV/K	mV/K	mV/K
	3200	Piezo Electric Constant	—	—	—	—
	3201	Ferroelectric	—	—	—	—
	3310	Switching	—	—	—	—
	3400	Secondary Electron Emission	—	—	—	—
Magnetic						
	4000	Magnetism	—	—	—	—
	4001	Ferromagnetic	—	—	—	—
	4002	Ferrimagnetic	—	—	—	—
	4005	Curie Point	C	K	C	C
	4009	Magnetic Permeability μ	H/m	H/m	H/m	H/m
	4010	Specific Permeability	—	—	—	—
	4011	Magnetic Moment	#	#	#	#
	4030	Magnetic Susceptibility χ (Miscell)	#	#	#	#
	4031	Magnetic Susceptibility/vol χ	emu/cm ³	m ³ /m ³	emu/cm ³	emu/cm ³
	4032	Magnetic Susceptibility/mass χ	emu/g	m ³ /kg	emu/g	emu/g
	4033	Magnetic Susceptibility/mol χ	emu/mol	m ³ /mol	emu/mol	emu/mol
	4034	Specific Susceptibility χ	—	—	—	—
	4040	Magnetic Coercive Force	A/m	A/m	Oe	Oe
	4050	Satur Mag Flux Density	T	T	G	G
	4050	Residual Mag Flux Density	T	T	G	G
	4052	Saturation Magnetization	#	#	#	#

(5) Chemical, Biochemical

-	ID	Property	common	SI	CGS	psi
Chemical						
	(Water Durability)					
	5011	Water Durability ASTM	#	#	#	#
	5012	Water Durability DIN	#	#	#	#
	5013	Water Durability JIS	#	#	#	#
	5014	Water Durability JOGIS	#	#	#	#
	5015	Water Durability ISO	#	#	#	#
	5010	Water Durability Other	#	#	#	#
	(Acid Resistance)					
	5021	Acid Resistance ASTM	#	#	#	#
	5022	Acid Resistance DIN	#	#	#	#
	5024	Acid Resistance JOGIS	#	#	#	#
	5025	Acid Resistance ISO	#	#	#	#
	5020	Acid Resistance Other	#	#	#	#
	5023	HF Resistance	#	#	#	#
	(Alkaline Resistance)					
	5031	Alkaline Resistance ASTM	#	#	#	#
	5032	Alkaline Resistance DIN	#	#	#	#
	5033	Alkaline Resistance JOGIS	#	#	#	#
	5034	Alkaline Resistance ISO	#	#	#	#
	5030	Alkaline Resistance Other	#	#	#	#
	(Other Resistance)					
	5040	Climate Resistance	#	#	#	#
	5050	Stain Resistance	#	#	#	#
	5060	Organic Solvent Resistance	#	#	#	#
	5070	Detergent Resistance	#	#	#	#
	5080	Salt Water Resistance	#	#	#	#
	(Reactive)					
	1540	Hydration	-	-	-	-
	5150	Reaction with Gas	-	-	-	-
	5151	Reaction with Liquid	-	-	-	-
	5152	Reaction with Solid	-	-	-	-
	5100	Ionic Selectivity	-	-	-	-

Biochemical

	5200	Biocompatibility	-	-	-	-
	5201	Bioactive	0, +1	0, +1	0, +1	0, +1
	5210	Antithrombogenicity	-	-	-	-

(6) Characterization

	7021	Brillouin Scattering	-	-	-	-
			-	-	-	-
	7210	Computer Simulation				

-	ID	Property	common	SI	CGS	psi
	7242	Dielectric Relaxation	—	—	—	—
	7245	Electric Relaxation	—	—	—	—
	7160	ESCA/ Auger/ SIMS/ RBS/ XPS	—	—	—	—
	7140	ESR/ EPR	—	—	—	—
	7120	EXAFS/ XANES	—	—	—	—
	7105	Fl X-Ray Spectrum	—	—	—	—
	7260	Ion beam Irradiation	—	—	—	—
	7011	IR Reflection Spectrum	—	—	—	—
	7010	IR Spectrum	—	—	—	—
	7150	Moessbauer	—	—	—	—
	7212	Molecular Dynamics	—	—	—	—
	7090	Neutron Diffraction	—	—	—	—
	7130	NMR/ NQR	—	—	—	—
	7080	Optical Microscope	—	—	—	—
	7081	AFM	—	—	—	—
	7221	Oxidation	—	—	—	—
	7220	Oxidation-Reduction	—	—	—	—
	7040	Photo Acoustic Microscopy	—	—	—	—
	7240	Photo Acoustic Spectrum	—	—	—	—
	7250	Positron Annihilation	—	—	—	—
	7020	Raman Spectrum	—	—	—	—
	7222	Reduction	—	—	—	—
	7091	SANS	—	—	—	—
	7110	SAXS	—	—	—	—
	7050	SEM/ EPMA	—	—	—	—
	7200	Structure Model	—	—	—	—
	7230	Structure Relaxation	—	—	—	—
	7060	TEM	—	—	—	—
	7170	TG/ DTA/ DSC	—	—	—	—
	7180	TG-GS	—	—	—	—
	7070	Tunnel SEM	—	—	—	—
	7030	UV/ Visible Spectrum	—	—	—	—
	7035	UV/ Visible Reflection Spectrum	—	—	—	—
	7225	Voltammetry	—	—	—	—
	7100	X-Ray Diffraction	—	—	—	—

(7) Miscellaneous

8001	Miscellaneous	#	#	#	#
~ 8009					

2 ID List for Structure Database

ID	Structure Item (Simplified)	Structure Item
Spectrum		
(Spectral Curve)		
01101	IR-Visible (Fig)	IR-Visible (Figure)
01102	Visible-UV (Fig)	Visible-UV (Figure)
01114	Lumi/IR-Visible (Fig)	Luminescence/IR-Visible (Figure)
01115	Lumi/Visible-UV (Fig)	Luminescence/Visible-UV (Figure)
01103	Raman (Fig)	Raman (Figure)
01104	NMR (Fig)	NMR(Figure)
01105	Moessbauer (Fig)	Moessbauer (Figure)
01106	ESR (Fig)	ESR (Figure)
01107	XPS (Fig)	XPS (Figure)
01108	XAFS (Fig)	XAFS(Figure)
01109	X-Ray (Fig)	X-Ray Diffraction (Figure)
01110	Neutron (Fig)	Neutron Diffraction (Figure)
01111	Calc (MD, MO) (Fig)	Calculation (MD, MO) (Figure)
01113	Others (Fig)	Others (Figure)
(Peak or Valley)		
01201	IR-Visible (Peak,Valley)	IR-Visible (Peak or Valley)
01202	Visible-UV (Peak,Valley)	Visible-UV (Peak or Valley)
01214	Lumi/IR-Visible (Peak, Valley)	Luminescence/IR-Visible (Peak or Valley)
01215	Lumi/Visible-UV (Peak, Valley)	Luminescence/Visible-UV (Peak or Valley)
01203	Raman (Peak,Valley)	Raman (Peak or Valley)
01204	NMR (Peak,Valley)	NMR (Peak or Valley)
01205	Moessbauer (Peak,Valley)	Moessbauer (Peak or Valley)
01206	ESR (Peak,Valley)	ESR (Peak or Valley)
01207	XPS (Peak,Valley)	XPS (Peak or Valley)
01208	XAFS (Peak,Valley)	XAFS (Peak or Valley)
01209	X-Ray (Peak,Valley)	X-Ray Diffraction (Peak or Valley)
01210	Neutron (Peak,Valley)	Neutron Diffraction (Peak or Valley)
01211	Calc (MD, MO) (Peak,Valley)	Calculation(MD, MO) (Peak or Valley)
01213	Others (Peak,Valley)	Others (Peak or Valley)
Interatomic Information		
02101	RDF etc (Fig)	Radial Distribution Function $4\pi r^2 \rho(r)$ Pair Distribution Function $g(r)$ or $\rho(r)=\rho_0 g(r)$ Cumulative Pair Distribution Function Total Correlation Function $t(r)=4\pi r \rho(r)$ Differential Correlation Function $d(r)=4\pi r\{\rho(r)-\rho_0\}$ Others
02201	Interference Function (Fig)	Interference Function (Figure)
02301	S(k) (Fig)	Structure Factor
02701	Ionic Radius	Ionic Radius
02802	Heterogeneity Radius	Radius of Heterogeneities
(1st Interatomic Distance)		
02401	1st Distance (Typical)	1st Interatomic Distance (Typical)
02402	1st Distance (Ave)	1st Interatomic Distance (Average)

02403	1st Distance (Peak)	1st Interatomic Distance (Peak)
02404	1st Distance Variance	1st Distance Variance
02405	1st Asymmetric Param	1st Asymmetric Parameter
(2nd Interatomic Distance)		
02501	2nd Distance (Typical)	2nd Interatomic Distance (Typical)
02502	2nd Distance (Ave)	2nd Interatomic Distance (Average)
02503	2nd Distance (Peak)	2nd Interatomic Distance (Peak)
02504	2nd Distance Variance	2nd Distance Variance
02505	2nd Asymmetric Param	2nd Asymmetric Parameter
(n-th Interatomic Distance)		
02901	n-th Distance (Typical)	n-th Interatomic Distance (Typical)
02902	n-th Distance (Ave)	n-th Interatomic Distance (Average)
02903	n-th Distance (Peak)	n-th Interatomic Distance (Peak)
02904	n-th Distance Variance	n-th Distance Variance
02905	n-th Asymmetric Param	n-th Asymmetric Parameter
(Bond Angle)		
02601	Bond Angle (Typical)	Bond Angle(Typical)
02602	Bond Angle (Ave)	Bond Angle (Average)
02610	Angle Variance (Ave)	Angle Variance (Average)
02603	Bond Angle (Most Probable)	Bond Angle (Most Probable)
02604	Angle Variance (Most Probable)	Angle Variance (Most Probable)
02605	Bond Angle (1st Peak)	Bond Angle (1st Peak)
02606	Angle Variance (1st Peak)	Angle Variance (1st Peak)
02607	Bond Angle (2nd Peak)	Bond Angle (2nd Peak)
02608	Angle Variance (2nd Peak)	Angle Variance (2nd Peak)
02609	Bond Angle Distribution (Fig)	Bond Angle Distribution (Figure)

Ring Structure

03001	Ring Size (Typical)	Ring Size (Typical)
03002	Ring Size (Ave)	Ring Size (Average)
03003	Ring Size (1st Peak)	Ring Size (1st Peak)
03004	Ring Size (2nd Peak)	Ring Size (2nd Peak)
03005	2-Membered Ring	2-Membered Ring
03006	3-Membered Ring	3-Membered Ring
03007	4-Membered Ring	4-Membered Ring
03008	5-Membered Ring	5-Membered Ring
03009	6-Membered Ring	6-Membered Ring
03010	7-Membered Ring	7-Membered Ring
03011	8-Membered Ring	8-Membered Ring
03012	9-Membered Ring	9-Membered Ring
03013	10-Membered Ring	10-Membered Ring
03014	Ring Structure Distribution (Fig)	Distribution of Ring Structure (Figure)

Coordination Number

04001	Coord No. (Typical)	Coordination Number (Typical)
04002	1st Neighbor Coord No.	1st Neighbour Coordination Number
04003	2nd Neighbor Coord No.	2nd Neighbour Coordination Number
04004	3rd Neighbor Coord No.	3rd Neighbour Coordination Number
04005	Coord No. 1	Coordination Number 1
04006	Coord No. 2	Coordination Number 2
04007	Coord No. 3	Coordination Number 3
04008	Coord No. 4	Coordination Number 4
04009	Coord No. 5	Coordination Number 5

04010	Coord No. 6	Coordination Number 6
04011	Coord No. 7	Coordination Number 7
04012	Coord No. 8	Coordination Number 8
04013	Coord No. 9	Coordination Number 9
04014	Coord No. 10	Coordination Number 10
04015	Coord No. 11	Coordination Number 11
04016	Coord No. 12	Coordination Number 12
04017	Coord No. Distribution (Fig)	Distribution of Coordination Number (Figure)

Bridging Oxygen Information

(Bridging Oxygen)

05101	NBO/ total O	NBO Fraction / [total O]
05102	NBO/ total X	NBO Fraction / [total X]
05103	BO/ total O	BO Fraction / [total O]
05104	BO/ total X	BO Fraction / [total X]
05105	[O ²⁻]/ total O	Isolated Oxygen [O ²⁻] / [total O]
05106	[O ²⁻]/ total X	Isolated Oxygen[O ²⁻] / [total X]
05107	3 Coord O/ total O	3 Coordinated Oxygen / [total O]
05108	3 Coord O/ total	3 Coordinated Oxygen / [total X]

(Q_n Distribution)

05201	Q ⁰ / total X	Q ⁰ / total X
05202	Q ¹ / total X	Q ¹ / total X
05203	Q ² / total X	Q ² / total X
05204	Q ³ / total X	Q ³ / total X
05205	Q ⁴ / total X	Q ⁴ / total X

Oxidation Number

06001	Valence No. (Ave)	Valence Number (Average)
06002	-6 Valence	-6 Valence
06003	-5 Valence	-5 Valence
06004	-4 Valence	-4 Valence
06005	-3 Valence	-3 Valence
06006	-2 Valence	-2 Valence
06007	-1 Valence	-1 Valence
06008	0 Valence	0 Valence
06009	+1 Valence	+1 Valence
06010	+2 Valence	+2 Valence
06011	+3 Valence	+3 Valence
06012	+4 Valence	+4 Valence
06013	+5 Valence	+5 Valence
06014	+6 Valence	+6 Valence

Structure Model

08001	Structure Model	Structure Model
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Basicity

09001	Optical Basicity	Optical Basicity
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Induced Structure

10001	Induced Structure	Induced Structure (by femtosec laser, etc.)
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Phase Separation

11001	Phase Separation	Phase Separation
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FSDP and Boson Peak

07001	FSDP Q Value	FSDP Q Value
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07002	FSDP Quasi-Bragg Plane Spacing	FSDP Quasi-Bragg Plane Spacing
07003	Boson Peak	Boson Peak

Raman Data

12001	Depolarization Ratio	Depolarization Ratio
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ESR Data

16001	g Value	g Value
16002	g Value (perp)	g Value (g _⊥)
16003	g Value (para)	g Value (g _{//})
16004	Hyperfine Coupling Const	Hyperfine Coupling Constant (hfcc) (A)
16005	perp Hyperfine Coupling Const	Hyperfine Coupling Constant (A _⊥)
16006	para Hyperfine Coupling Const	Hyperfine Coupling Constant (A _{//})
16007	Hyperfine Structure Spacing	Hyperfine Structure Spacing
16008	ESR-FWHM	Line Width (FWHM)
16009	Dipolar Hyperfine Coupling Param	Dipolar Hyperfine Coupling Parameter
16010	Fermi Contact Interaction Param	Fermi Contact Interaction Parameter

XAFS Data

13001	Absorption Edge Position	Absorption Edge Position
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NMR Data

14001	Quadrupolar Coupling Const	Quadrupolar Coupling Constant
14002	Asymmetry Param	Asymmetry Parameter
14003	Proportions Present	Proportions Present
14004	Chemical Shift	Chemical Shift
14005	Chemical Shift Anisotropy	Chemical Shift Anisotropy
14006	Isotropic Chemical Shift	Isotropic Chemical Shift
14022	2nd-order Quadrupolar Shift	Second-order Quadrupolar Shift
14007	Quadrupolar Isotropic Chemical Shift ¹⁷ O	Quadrupolar Isotropic Chemical Shift ¹⁷ O
14008	Shielding Const	Shielding Constant
14009	Spin Coupling Time	Spin Coupling Time
14010	Relaxation Time	Relaxation Time
14011	Relaxation Time T ₁	Longitudinal Relaxation Time T ₁
14012	Relaxation Time T ₂	Transverse Relaxation Time T ₂
14013	Quadrupole Relaxation	Quadrupole Relaxation
14021	NMR-FWHM	Line Width (FWHM)
14015	Dipole Interaction	Dipole Interaction
14016	Quadrupole Interaction	Quadrupole Interaction
14017	Electric Field Gradient	Electric Field Gradient
14019	2nd Quadrupole Effect	Effect of Secondary Quadrupole
14020	Quadrupole Moment	Quadrupole Moment
14023	MQ-Quadrupolar Coupling Param	MQ-Quadrupolar Coupling Parameter (Product)
14024	Isotropic Dimension	Isotropic Dimension

Moessbauer Data

15001	Isomer Shift	Isomer Shift
15002	Quadrupole Splitting	Quadrupole Splitting

15003	Moessbauer-FWHM	Line Width (FWHM)
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Others		
99999 (O00***)	Others	Miscellaneous Items