

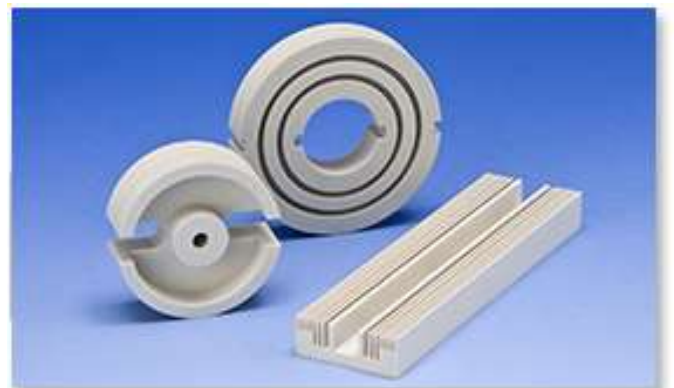
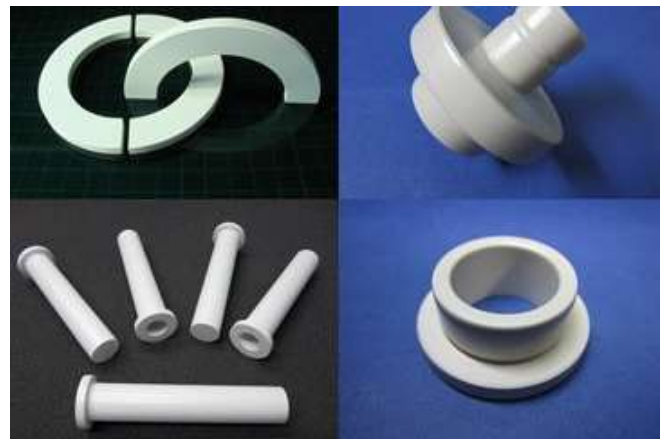


Machinable Ceramics

Machinable Ceramics is available for minute processing.

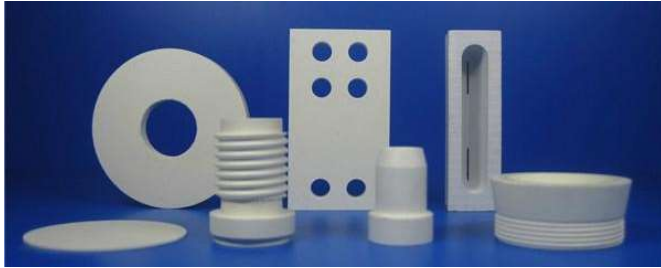
Macerite, Macor, Photoveel, BN, SHAPAL Hi M-soft

We have the relations with many ceramics processors.
We can send ceramics artefact in the most suitable material on short delivery date.





Property of Machinable Ceramics



Typical applications for Machinable Ceramics include laser applications - spacers, reflectors and cavities in laser assemblies; electronics/semiconductors - precision coil formers and high voltage insulators; high vacuum applications - thermal breaks in high temperature processing equipment, vacuum feed-throughs and coil supports; nuclear industry - reference blocks and fixtures in power generation units; and aerospace/space industry - retaining rings on doors, windows and hinges of NASA's Space Shuttle supports and components in a number of satellite borne systems.

Luck Design Company, Limited

Advanced Ceramics Characteristics

	Model number	Density	Bending strength	Coefficient of elasticity	Hardness	Fracture toughness	Coefficient of thermal expansion	Thermal shock resistance	Coefficient of thermal conductivity	Electrical resistance	Dielectric strength	Dielectric constant	Dielectric loss
unit		g/cm ³	Mpa	GPa	GPa	MPa√m	x10 ⁻⁶ /K	K	W/m·K	Ω·cm	kV/mm		x10 ⁻³
Alumina (Al ₂ O ₃)	LA995	3.9	450	390	18	4	7.3	200	30	>10 ¹⁴	12	10	30
Zirconia (ZrO ₂)	LZR-3Y	6	1000	200	13	6	7.5	200	30	>10 ¹⁴	12	10	3
Silicon carbide (SiC)	LSC01	3.1	490	430	24	3	3.1	450	140	10 ⁴	-	-	-
Silicon nitride (Si ₃ N ₄)	LSN02	3.2	800	290	14	6	1.6	700	24	>10 ¹⁴	>10	8	3
Aluminum nitride (AlN)	LAL-3Y	3.3	350	320	13	3	4.5	400	170	>10 ¹³	15	8.8	5
Macerite SP	M-SP	2.5	110	64	2.2	-	9.3	150	1.6	>10 ¹⁵	10	6	8
Macerite HSP	M-HSP	2.67	160	65	2.2	-	9.8	175	1.6	>10 ¹⁵	>10	6.5	3
Macor	MC	2.5	94	66.9	2.2	-	9.3	200	1.4	>10 ¹⁶	10	6.8	10
Photoveel	PV-N	2.6	150	66	2.2	-	8.5	150	1.5	>10 ¹⁵	20	6.4	6
L-TEX (Zrcon Cordierite)	L-TEX	2.7	150	-	-	-	2.5	150	1.2	>10 ¹³	10	6.5	-
Boron nitride (BN)	BN-N-1	1.8	30	10	0.8	-	-1.8	1500	63	>10 ¹⁵	19	4.5	9
SHAPAL Hi M-soft (AlN+BN)	S-HMS	2.88	300	177	3.7	-	4.8	400	92	>10 ¹⁵	-	6.8	10

Notice; The number mentioned above is not a guara tee level.

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