



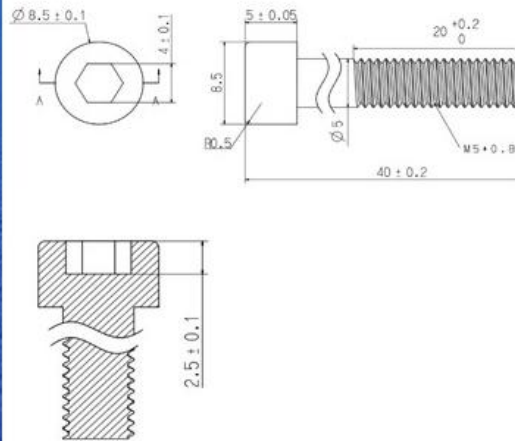
Alumina Fastener

Nextgen Advanced Materials supplies high-quality and competitive price advanced Alumina Fasteners products. Customization is available.

Product Description

As a professional high quality Nextgen Alumina Fastener manufacture, you can rest assured to buy Alumina Fastener from our factory and we will offer you the best after-sale service and timely delivery. We provide various types of Alumina fasteners, such as bolts, screws, washers and nuts in both American and metric standard. Non-standard customized production is available for large quantity.

















Ceramic Characteristic Table

	Name	99 Porcelain	95 Porcelain	Zirconium oxide
	Ingredients	$Al_2O_3 \geq 99\%$	$Al_2O_3 \geq 95\%$	$ZrO_2 \geq 94\%$
Physical characteristics	Density	3.85	3.6	5.9
	Water absorption rate %	0	0	0
	Sintering temperature $^{\circ}C$	1690	1670	1650
Physical characteristics	Hardness HV	1700	1600	1400
	Flexural strength 4pt	> 3500	> 2900	> 11000
	Compressive strength kgf/cm ²	30000	25000	25000
Thermodynamic characteristics	Maximum operating temperature: $^{\circ}C$	1500	1400	1600
	Coefficient of thermal expansion	8	7.8	10
	0-1000 $^{\circ}C$			
	Heat shock force T ($^{\circ}C$)	200	220	350
Heat conductivity W/m.k	31	22	3	
Electrical characteristics	Volume resistivity $\Omega.cm$	$> 10^{12}$	$> 10^{12}$	$> 10^{12}$
	Insulation breaking strength KT/m	18	16	15
	Dielectric constant 1MHZ (E)	9.2-10.5	9.0-10	12.5

Alumina Fasteners Specifications

Type of head			Standard	Length
		Hex Head	American metric	5mm~100mm
		Phillips Pan Head	American metric	5mm~100mm
		Socket Cap Head	American metric	5mm~100mm
		Flat Socket Head	American metric	5mm~100mm
		Pan Head	American metric	5mm~100mm
		Flat Head	American metric	5mm~100mm

Specification			
Parameters	UNIT	Al 99	Al 95
Al ₂ O ₃ Content	%	99	95
Density	g/m ³	3.85	3.6
water absorption	%	0	0
Sintering temperature	°C	1690	1670
Hardness	HV	1700	1600
Compressive strength	Kgf/cm ²	30000	25000
Max. Working Temperature	°C	1500	1400
Thermal Conductivity	W/(m K)	31	22
Volume Resistivity	Ω.cm	>10 ¹²	>10 ¹²
Dielectric Constant	MHZ(E)	9.2-10.5	9.0-10
Customization		Available	Available