

MATERIAL SPECIFICATIONS

		ALUMINA					ZIRCONIA			ELECTROSTATIC DISSIPATIVE
Properties	Units	Al ₂ O ₃ 99.7%	Al ₂ O ₃ 99.99%	Polycrystalline Ruby	Zirconia Toughened Alumina	Zirconia Toughened Alumina	Zirconia ZrO ₂ -3Y	Zirconia Alumina	Zirconia Alumina	ESD 10 ⁴ ÷ 10 ¹¹ Ω • cm
SPT Denomination		A	C	R	CT	AZ	Z	ZF	AZO	ZESD
Density	g/cm ³	3.9	3.98	3.9	4.0	4.25	6.0	6.0	5.5	4.4
Color		White	White (Translucent available)	Red (Translucent available)	White	White	Ivory or Anthracite	White	White	Anthracite
Flexural Strength Typical (4 Points)	MPa	310	610 1)	520	550	930	1'350	1'400	2'000	--
Hardness	HV 1	1'800	2'100	2'200	2'050	2'000	1'300	1'300	1'500	1'100
Grain Size	µm	< 8	< 1	< 2	< 1	< 0.9	< 0.6	< 0.6	< 0.5	--
Thermal Conductivity	W/mK	30	30	30	30	27	2	2	6	--

SPT does not guarantee results or warrant that materials are suitable for any particular purpose. Material selection and testing is the responsibility of the user.

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1) 3 Points : 1021 MPa

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