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Materials Catalogue

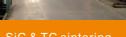
KYLIN



Spraying & granulating

Dry powder pressing







CNC grinding



Seal testing system



3-dimensional meters







Warehouse

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Silicon Carbide

Silicon Carbide Physical Property

		Reaction Bonded Silicon Carbide	Sintered Silicon Carbide	Reaction Bonded Silicon Carbide with Graphite	Sintered Silicon Carbide with Graphite	Sintered Silicon Carbide with Pore
Technical Parameter		SiC	SSiC	SiC+C	SSiC+C	QSSiC+C
Hardness	HS	110	115	≥105	≥110	≥100
Porosity Rate	%	<0.3	<0.2	<0.5	<0.5	<5
Density	g/cm³	3.00-3.05	>3.10	2.69-2.90	2.70-3.0	2.65
Compressive Strength	MPa	>2200	>2500	>1400	>1600	>800
Fractural Strength	MPa	>350	>380	>150	>160	>100
Coefficient of Heat Expansion	10 ⁻⁶ /°c	4	4.2	3.5	3	2.5
Content of Sic	%	≥90	≥98	≥85	≥92	≥90
Free Si	%	≤10	≤1	≤12	/	/
Elastic Modulus	GPa	≥400	≥410	≥350	≥360	≥180
Temperature	°c	1300	1400	1300	1400	1400











Property values are typical and should not be considered specifications. The data presented is in accordance with the present state of our knowledge, but does not absolve the user from carefully checking all products immediately upon receipt. We reserve the right to alter property values within the scope of technical progress or new developments. The recommendations made in this data sheet should be checked by preliminary trials because ofconditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use does not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.



Aluminum Oxide



Al₂O₃ Physical Property

Technical Parameter	Unit	99%	99.5%
Content of Al ₂ O ₃	%	99	99.5
Density	g/cm³	3.88	3.9
Hardness	HRA	88	90
Porosity Rate	%	<0.2	<0.15
Fractural Strength	Мра	310	350
Coefficient of Heat Expansion	10 ⁻⁶ /K	5.3	5.2
Thermal Conductivity	W/M.K	26.7	26



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Tungsten Carbide

Tungsten Carbide Physical Property

Technical parameter		Unit	YWN6	YWN8	YG6	YG8	NT60
	TC	%	94	92	94	92	
Composition	Ni	%	6	8			
	Со	%			6	8	
Density		g/cm³	14.5-14.9	14.4-14.8	14.6-15	14.5-14.9	6.5-6.8
Hardness		HRA	≥88.5	≥88	≥89.5	≥89	≥90
Fractural Strength		MPa	1490	1470	1421	1470	1480
Heat Expansion Co-efficient		10 ⁻⁶ /K	5.2	5.3	5	5.1	7.5







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Carbon

Carbon physical Property

	Category	Model	Density (g/cm³)	Fractural Strength (Mpa)	Compressive Strength (Mpa)	Shaw Hardness (HS)	Porosity (%)	Temperature (°C)
	Hot molded Carbon	M1	>1.65	65	150	>70	<0.2	180
	Sintered Carbon	MJ	>1.75	60	160	>85	< 2.5	200
	Impregnated	M106H	1.75	65	200	85	<1	250
	Epoxy Resin(H)	M120H	1.7	60	180	80	<1	250
Carbon	Impregnated	M106K	1.75	67	200	90	<1	250
-graphite	Furan Resin(K)	M120K	1.7	62	180	85	<1	250
	Impregnated Phenol	M106F	1.75	60	200	85	<1	250
	Aldehyde Resin(F)	M120F	1.7	55	180	80	<1	250
		M106D	2.3	65	220	90	<1.5	400
	Antimony Carbon(D)	M120D	2.3	60	220	90	<1.5	400
		M254D	2.3	55	210	65	<1.5	400

Carbon has the good property of good resistant-corrosion, high thermal conductivity and lower friction, good self-lubrication, and smaller expansion. They can be made into the seal faces, bearings and so on. It is ideal to choose it as the frictional mating rings.

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Rubber Parts

	NBR	Resistant to oil, pressure and wear, good elasticity and mechanical strength; applicable to the mediums including water, oil, alcohol, etc from -20°C to 100°C
	EPDM	Resistant to high or low temperatures, ozone and chemicals; applicable to weak acids with temperatures from -35°C to 150°C
	Viton	Resistant to heat, oil, medicine and chemical reagents, acid and alkali with medium corrosive degrees; applicable to the corrosive mediums from -20°C to 180°C
-	Silica Gel	Resistant to ozone, aging, acetic acid, ammonia and alcohol; applicable to alcohol, alkali, etc from -50°C to 210°C
	Chlorinated Rubber	Resistant to Freon, petroleum; applicable to inorganic acid, alkali, running from -30°C to 130°C

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