

Ceramic insulating materials

 VÝROBA TECHNICKÉ KERAMIKY		Group	C 200				C 400		C 500					C 600
		Type	C 220	C 221	C 221	C 230	C 410	C 410	C 511	C 511	C 512	C 520	C 530	C 620
		Trade terminology	Steatit lisovací	Steatit lisovací	Steatit tažný	Steatit přezahový	Kordierit lisovací	Kordierit tažný	Pyrostat lisovací	Pyrostat tažný	Infrakordierit	Infraplus	Superinfra	Alucer lisovací
		Description *	KER 220	FR 32/31 Z	FR53/10 BM/3	Přezah 231	KLP 410	KŠT 410	PL 511	PT 511	IK 512	IP 515	H 513	AI 62/10
Property		Unit	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Open porosity		max. %	0,5	0,5	0,5	15	0,5	0,5	12	12	15	10	20	0,5
Bulk density		min. g/cm ³	2,4	2,7	2,7	1,8	2,2	2,1	2,0	2,0	1,9	2,0	2,0	2,7
Rigidity in curve		min. MPa	85	120	120	2,1	60	60	25	20	15	20	25	120
Bending strength		min. GPa	80	110	110									120
Mean linear expansibility coefficient	α 30°C – 100°C	10 ⁻⁶ K ⁻¹	7 to 9	6 to 8	6 to 8		2 to 4	4 to 6	3 to 6	3 to 6	2 to 3	3 to 4,5	3,5 to 5	5 to 6
	α 30°C – 300°C	10 ⁻⁶ K ⁻¹	7 to 9	7 to 9	7 to 9		2 to 4	3,5 to 5	4 to 6	3 to 5	2 to 3	3 to 4,5	3,5 to 5	5 to 6
	α 30°C – 600°C	10 ⁻⁶ K ⁻¹	7 to 9	7 to 9	7 to 9	5,8 to 6,3	2 to 4	3,5 to 5	4 to 6	3 to 5	2,5 to 3,5	3 to 5	3,5 to 6	5 to 7
Mean specific heat		20°C – 100°C J/kgK	540 to 650	800 to 900	800 to 900		800 to 1200	800 to 1200	900 až 1000	800 to 1200	750 to 900	750 to 900	750 to 1000	850 to 1050
Specific thermal conductivity		20°C – 100°C W/mK	1,4 to 1,8	2 to 3	2 to 3		3 to 4	1,5 to 2,5	1,9 to 2	1,6 to 1,8	1,2 to 1,7	1 to 1,5	1 to 1,5	6 to 15
Resistance to sudden changes in temperature		min. °C	80	100	100		160	200	200	200	300	300	400	150
Proof voltage		min. kV	18	30	30		10	10						20
Specific inductive capacity		48 Hz – 62 Hz	5 to 7	5 to 7	5 to 7		5 to 7	5 to 7						8
Temperature coefficient permittivity		10 ⁻⁶ K ⁻¹	160 to 70	160 to 70	160 to 70		600 to 500	600 to 500						
Power loss factor by 20°C max.	48 Hz – 62 Hz	10 ⁻³	5	1,5	1,5		25	25						
	1 MHz	10 ⁻³	3	1,2	1,2		7	7						
Specific internal resistance min.	20°C	Ω cm	10 ¹²	10 ¹³	10 ¹³		10 ¹²	10 ¹⁰	10 ¹¹	10 ¹¹	10 ⁷	10 ⁹	10 ⁸	10 ¹³
	200°C	Ω cm	10 ⁹	10 ¹¹	10 ¹¹		10 ⁷	10 ⁷	10 ⁸	10 ⁸	10 ³	10 ³	10 ³	10 ¹¹
	600°C	Ω cm	10 ⁵	10 ⁵	10 ⁵		10 ²	10 ⁴	10 ⁴	10 ⁴	10 ¹	10 ¹	10 ¹	10 ⁶

* This description used to your orders .

Effective from: 10.3.2006	Revision : 3.1.2020	Issued by: Libor Pillmajer Head production engineer	Approved by: Lukáš Venclík General director
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