


Ceramic insulating materials

 VÝROBA TECHNICKÉ KERAMIKY		Group	C 200			C 400		C 500					C 600
		Type	C 220	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 přežahový	Kordierit lisovací	Kordierit tažný	Pyrostat lisovací	Pyrostat tažný	Infrakordierit	Infraplus	Superinfra	Alucer lisovací
Description *		KER 220	FR 32/31 Z	Přežah 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	
Open porosity	max.	%	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	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	2,1	60	60	25	20	15	20	25	120
Bending strength	min.	GPa	80	110									120
Mean linear expansibility coefficient	α 30°C – 100°C	10 ⁻⁶ K ⁻¹	7 to 9	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		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	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 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		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		160	200	200	200	300	300	400	150
Proof voltage	min.	kV	18	30		10	10						20
Specific inductive capacity	48 Hz – 62 Hz		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		600 to 500	600 to 500						
Power loss factor by 20°C max.	48 Hz – 62 Hz	10 ⁻³	5	1,5		25	25						
	1 MHz	10 ⁻³	3	1,2		7	7						
Specific internal resistance min.	20°C	Ω cm	10 ¹²	10 ¹³		10 ¹²	10 ¹⁰	10 ¹¹	10 ¹¹	10 ⁷	10 ⁶	10 ⁸	10 ¹³
	200°C	Ω cm	10 ⁹	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 ²	10 ⁴	10 ⁴	10 ⁴	10 ¹	10 ¹	10 ¹	10 ⁶

* This description used to your orders .

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Phone:
00420 379 794 331-2

Fax:
00420 379 794 341-2

E-mail:
steatit@steatit.cz