

PRODUCT LIST

TECHNICAL CERAMICS

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Frits and Glazes for Technical Ceramics

Technical ceramics are one of the most versatile materials available to product designers, offering the most incredible combination of properties. They are characterized by high

temperature resistance, high wear resistance and high corrosion resistance and can serve as such as a basis for numerous devices in different areas of electronics and electrical engineering.

In our production program we offer frits and glazes for sintered technical ceramics, such as igniters, spark plugs, varistors, graphite glazes,

ceramic insulators for spark plugs and spark plug fillers. All of our frits are available in granulate, powder form or milled with requested additives.

Table 1: Frits and glazes for sintered technical ceramics (igniters, spark plugs, varistors, graphite glazes, ceramic insulators for spark plugs and spark plug fillers)

Product	WAK in 10 ⁻⁶ /K ¹	Softening point in °C	Half ball temperature in °C	Pb Free ²	Cd Free ²	Form / PSD / Rest on sieve	Tg ³	Used as/in
R-1912	8,5	610	815	X	X	Granulate – no more than 6 mm	490	Frit for glaze, application on spark plugs
R-2916	7,1	670	750	X	X	Powder d50=(13-18) microns	450	Dry ground frit for glazing of spark plugs
K120002	4,9	850	995	X	X	Granulate – no more than 6 mm	-	Frit for glaze, application on spark plugs
K420003	4,9	850	995	X	X	>63mic = max 3%	-	Dry ground glaze for glazing of spark plugs
R-1062	6,7	820	985	X	X	Granulate – no more than 10 mm	-	Frit for glaze, application igniters
K420001	7,3	850	950	X	X	>63mic = max 3%	-	Dry ground glaze for varistor glazes
R-1913	10,3	760	950	X	X	Granulate – no more than 6 mm	-	Spark plugs filler
K223093	8,3	830	910	X	X	>400mic = max 2,2% <200mic = max 40%	530	Spark plugs filler
K223092	8,3	830	910	X	X	>200mic = max 4,2% <63 mic = max 25%	530	Spark plugs fillers
K223091	8,3	830	910	X	X	>63 mic = max 6,2%	530	Spark plugs fillers
K220040	5,3	815	1100	X	X	>400mic = max 3% >250mic = max 10% >125mic = max 15% - 30% >75mic = 20% - 25%	490	Spark plugs fillers
K220075	5,3	815	1100	X	X	>75mic = 5% - 10%	490	Spark plugs fillers
R-2911G	11,4	765	960	X	X	160mic-450mic = min 97%	450	Spark plugs fillers

¹ Thermal expansion coefficient WAK (20oC to 400oC)

² Lead free: PbO<0.5%. and Cadmium free Cd<0,5%. These products are technically lead and cadmium free. In the production of these materials, we do not use raw materials with lead or cadmium as a main or minor constituent. However, this does not exclude lead and cadmium as trace constituent.

³ Transformation temperature Tg