

DYNAMAG® K

(FUSED MAGNESIUM OXIDE)

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DESCRIPTION

DYNAMAG® K is a high purity fused magnesium oxide produced in an electric arc furnace.

APPLICATIONS

DYNAMAG® K is used in the manufacture of small refractory parts, usually by extrusion or die pressing. It also has a major application in phosphate based dental compounds, being used as a component in refractory masses for precision casting.

TYPICAL CHEMICAL ANALYSIS

SiO ₂	1% max
CaO	0.5 - 1.5%
Fe ₂ O ₃	< 0.1%
Al ₂ O ₃	< 0.8%
SO ₃	< 0.005%
Cl	< 0.005%
Na ₂ O	< 0.005%
K ₂ O	< 0.005%
B	< 10 ppm
NiO	< 0.030%
MgO (by difference)	97-99%

TYPICAL PHYSICAL PROPERTIES

Specific Surface Area	0.5 - 1.5 m ² /ml (BET)
Particle Size Distribution	100% finer than 70 μm 50% finer than 12 μm
Ignition Loss (1000° C)	0.25%

Grain size analysis effected by means of sedimentation.

REACTIVITY

Citric acid test: > 2.5 minutes (150 seconds)

STORAGE AND PACKAGING

With suitable packaging and appropriate dry storage, no deterioration of MgO activity has been observed over periods of several months. Dynamag® K is supplied in 25 Kg 'Tyvec' bags, 40 bags per pallet.

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