Large Crystal Electrofused Magnesia

The process of manufacturing Large Crystal Electrofused Magnesia involves melting, cooling, and crystallization on High Purity Caustic Calcined Magnesia in high-voltage arc furnaces. The main features of Large Crystal Electrofused Magnesia are high purity, low SiO_2, and low Fe_2O_3, without harmful impurity elements such as B_2O_3 and chlorine.

Large Crystal Electrofused Magnesia is not only the ideal high-quality raw material for magnesia-carbon bricks applied in key parts of converters, EAF and ladle linings, but also suitable for ramming mix, castables, acetate industries, etc.

PRCO has 6 production lines for Large Crystal Electrofused Magnesia with an annual production capacity of 60,000 tons.

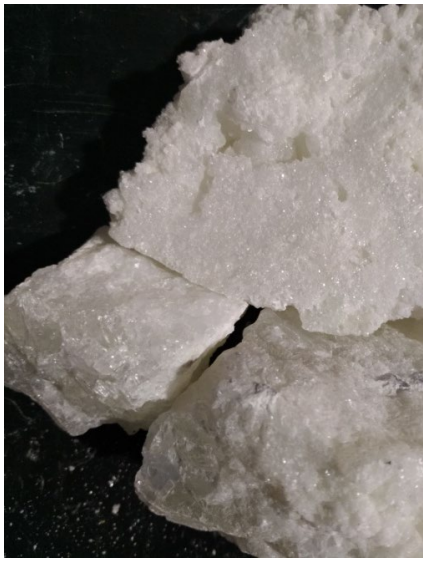
Data sheet of Large Crystal Electrofused Magnesia

Brand	MgO, ≥	CaO, ≤	SiO_2, ≤	Fe_2O_3, ≤	Bulk Density ≥	Apparent Porosity ≤
PN-LFM985	98.5	1.0	0.3	0.2	3.45	2.0
PN-LFM980	98.0	1.5	0.3	0.2	3.45	2.0
PN-LFM975	97.5	2.0	0.8	0.3	3.40	3.0
PN-LFM970	97.0	2.0	1.5	0.3	3.40	3.0
PN-LFMS	97.0	2.5	1.5	0.5	2.60	25.0

PN-LFM985 Large Crystal Electrofused Magnesia

PN-LFM980 Large Crystal Electrofused Magnesia

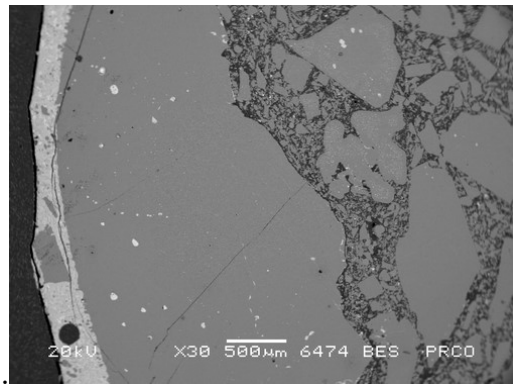
PN-LFM975 Large Crystal Electrofused Magnesia



PN-LFM970 Large Crystal Electrofused Magnesia

PRCO has adopted PN-LFM985 Large Crystal Electrofused Magnesia for Low Carbon Magnesia Carbon Brick by replacing the conventional Chinese produced 98.5% grade Large Crystal Electrofused Magnesia.

The new Low Carbon Magnesia Carbon Brick developed by PRCO has achieved good results in the VOD ladle slag line. Compared with similar products using the conventional Chinese 98.5% grade Large Crystal Electrofused Magnesia, the service life was increased by 30%, which is equivalent to the service life of Magnesia Chrome Brick.



(Microstructure of the new Low Carbon Magnesia Carbon Brick)