AC 12
MIPEX - DRY CRUCIBLE BACKING MIX

Typical Chemical Analysis	**%**		**%**
SiO_2	3.44	max.	4.73
Fe_2O_3	1.38	max.	1.72
Cr_2O_3	n.n		
Al_2O_3	5.29	max.	17.00
CaO	1.55	max.	2.49
MgO	77.57	min.	73.10
TiO_2	0.10		
Loss on ignition	0.40		

A carefully formulated Magnesia Spinel material to be used as a dry powder packing around induction crucibles.

Because of its high thermal expansion it grips the crucible securely, and resistance to vitrification maintains free-flowing properties to compensate for expansion and contraction of the crucible. MIPEX is a specially formulated mix design which uses the optimum mineralogy and particle size distribution. The use of this type of backing powder becomes increasingly important as the melt weight rises, when it is particularly important to give the best possible support and so maximize crucible life.

Although a variety of refractory aggregates can be used for this application, the inherently high thermal expansion of MIPEX means that it actually grips the crucible throughout the temperature range and then forms a spinel which will provide irreversible thermal expansion giving support even as crucibles cool down.

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