

Matrixblend[®] Refractories

MATRIXBLEND blue and green refractories are electrically fused, high purity silica. Fused silica is produced from a naturally occurring mineral and is therefore subject to variability. It has a low thermal conductivity and excellent thermal shock resistance. These properties, along with its low density, make it an excellent refractory for use in a ceramic shell mold. Shells constructed with fused silica hold their dimensions better and are not prone to hot deformation or bulging. Shell removal from the casting, or knockout, is also easier with fused silica refractories. MATRIXBLEND refractories are proprietary blended fused silica flour formulas.

Typical Material Properties*

% Silica (SiO ₂)	≥ 99.7%
Alumina (Al ₂ O ₃)	≤ 3000** ppm
Ferric Oxide (Fe ₂ O ₃)	≤ 350 ppm
Calcium Oxide (CaO)	≤ 50 ppm
Magnesium Oxide (MgO)	≤ 50 ppm
Sodium Oxide (Na ₂ O)	≤ 50 ppm
Potassium Oxide (K ₂ O)	≤ 50 ppm

*These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification.

**The finer the powders, the higher the alumina levels, due to the use of high density alumina grinding media.

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PRODUCT DATA SHEET



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