



**Magma is ideally positioned technically and geographically with facilities in the UK, SE Asia and Brazil to offer a comprehensive range of advanced refractory "engineered solutions" for the complete steel process.**

Our range of products include:

**Well blocks** are made from high-purity, high-density, high-strength materials. Our product and formulation has been developed

for applications requiring:

- High temperature strength
- Thermal shock resistance
- Good slag/corrosion/erosion resistance
- Refractoriness

**Nozzles** are used and developed in conjunction with well-blocks for the steel and non-ferrous industries, where application demands:

- High temperature strength
- Good slag/corrosion/erosion resistance

### Zirconia metering nozzles

used for the continuous casting of steel. Available in either a solid one piece nozzle or within a co-moulded high alumina body assembly produced to our customer and requirements and specifications.

Magma is a leading supplier of crucibles to the Steel Industry, with over 20 years' experience within this sector.

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Material Ref:	SiO <sub>2</sub> (%)	Al <sub>2</sub> O <sub>3</sub> (%)	ZrO <sub>2</sub> (%)	Cr <sub>2</sub> O <sub>3</sub> (%)	MgO (%)	AP (%)	BD (g/ml)	CCS (MN/m <sup>2</sup> )	Material:	Application Areas:
SA1	1.5	98	–	–	–	17	3.1	65	Alumina	Steel ladle nozzles
MSA3	1.4	93.5	–	–	4.4	18	3	120	Alumina Spinel	Steel ladle wellblocks
TA1	–	–	–	–	–	–	–	–	Alumina	Steel ladle nozzles
CAL	1.6	94	–	4.4	–	22.5	3	65	Alumina Chrome	Induction furnace crucibles with enhanced slag resistance
Mag B	0.3	–	–	–	97	–	–	–	Magnesia	Basic dry powder ramming mix
M1	1.5	3	–	–	95.5	19	2.82	35	Magnesia	Crucibles, pouring spouts for basic slag chemistry

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