



Magma is a world leader in the manufacture and supply of refractory components to the Superalloy sector. Typically, these fired shapes are for the Vacuum Induction Melting (VIM) of Superalloys including Nickel and Cobalt based alloys.

Magma's range of products includes:

Distribution Boxes/ Hot Top Boxes

Magma manufactures an extensive range of distribution

boxes (also known as hot top boxes), designed for individual tube filling within the Primary melting/Bar stock production sector. These currently cater for bar stock sizes from 32mm to 175mm diameter.

Materials can be individually tailored and are Rolls Royce approved from Sillimanite or in a higher grade Alumina version.

Launders/Tundishes

Magma manufactures a large range of launders/tundishes to suit either single-chamber or dual-chamber furnaces, either by conventional plain tundish design

or to more complex shapes where double filtering may be required.

Materials can be selected to suit individual customer applications and requirements.

Dip Samplers

Magma manufactures an extensive range of samplers/dip samplers produced in a fine grain Sillimanite, designed and tailored to meet each customer's unique requirements.

Splash Blocks/Pancheons

We manufacture splash blocks/pancheons in a wide variety of shapes and sizes to meet

Magma Ceramics & Catalysts
Low Road, Earlsheaton, Dewsbury,
West Yorkshire, WF12 8BU, UK

Telephone: +44 (0)1924 468201
Fax: +44 (0)1924 459429
Email: info@magmaceramics.com

www.magmaceramics.com



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customer requirements. These are primarily designed for feedstock electrodes for secondary re-melting applications.

Crucibles

We are able to provide a full range of crucibles in materials suitable for both vacuum and air melting of superalloys.

Nozzles

Magma manufactures an extensive range of nozzles for the superalloy industry, including pouring nozzles, metering nozzles, reverse-taper nozzles and anti-swirl nozzles.

Material Ref:	SiO ₂ (%)	Al ₂ O ₃ (%)	ZrO ₂ (%)	Cr ₂ O ₃ (%)	MgO (%)	AP (%)	BD (g/cm ³)	CCS (MN/m ²)	Material:	Application Areas:
AM91C	8.5	87.5	3.5	–	–	19.5	2.96	60	Alumina Mullite	Induction furnace crucibles
FA1	2.6	97.5	–	–	–	21	3.09	75	Alumina	Large induction furnace crucibles
FA2	26	97.5	–	–	–	23	2.98	60	Alumina	Induction furnace crucibles
SMC	43	54.5	–	–	–	20	2.28	40	Sillimanite	Dip samplers, tundish, launders, crucible
S1F	41	55.5	–	–	–	23.5	2.15	35	Sillimanite	Distribution boxes, launders, tundish, nozzles, baffles, accessories
S1M	41.5	55.5	–	–	–	25	2.1	35	Sillimanite	Smaller crucibles, tubes, exit nozzles
VS3	7.5	92	–	–	–	19	2.89	55	Alumina Mullite	Distribution boxes, launders, tundish, nozzles, baffles, accessories
S1A	32	66	–	–	–	25	2.25	40	Sillimanite	Distribution boxes, launders, tundish, nozzles, baffles, accessories
S6	40.5	56	–	–	–	20	2.28	40	Sillimanite	Distribution boxes, launders, tundish, nozzles, baffles, accessories
AM2	31	65.5	–	–	–	23	2.3	45	Alumina Mullite	Pouring spouts, tundish
TA1	1.5	98	–	–	–	–	–	–	Alumina	Nozzles, crucibles, saggars
TA3	7.5	92	–	–	–	25.5	2.68	40	Alumina	T-pot crucible pouring spouts, saggars
CAL	1.6	94	–	4.4	–	22.5	3	65	Alumina Chrome	Induction furnace crucibles
Mag B	0.3	–	–	–	97	–	–	–	Magnesite	Basic dry powder ramming, backing mix
ZNP	35	1.3	64	–	–	–	–	–	Zircon	Zircon dry powder ramming, backing mix
M1	1.5	3	–	–	95.5	19	2.82	35	Magnesia	Crucibles, pouring spouts for basic slag chemistry
F45	59.5	39.5	–	–	–	23.5	2.03	–	Fused Silica, Alumina	High thermal shock resistance t-pot crucibles

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