JOHN WINTER

LEADING UK FOUNDRY SUPPLIER

johnwinterfoundry.co.uk

REFRACTORIES

FOR CORELESS INDUCTION FURNACES

For use in Coreless Induction furnaces **melting Aluminium, Copper Alloys, Irons, Steels and Ferro/master alloys.**

- Formulated from high purity materials.
- Excellent packing density.
- Excellent expansive properties on sintering.
- Resistant to oxide and slag attack.
- Resistance to thermal shock.
- Resistane to abrasion and impact damage.

ENGINEERED TO PERFORM. BUILT TO LAST.

At John Winter, we combine decades of foundry expertise with advanced material technology to deliver high performance refractory solutions for coreless induction furnaces. Our refractories are trusted by foundries across the UK and beyond for their reliability, consistency and proven results in even the most demanding conditions.

FOUNDRY FOCUSED

Specialist refractories designed specifically for coreless induction furnace applications.

PROVEN RELIABILITY

Consistent performance, excellent wear resistance and extended lining life in every heat.

TECHNICAL SUPPORT

Expert advice and practical support from a team that understands your process and your challenges.

TRIED. TESTED. TRUSTED.

Supplying the UK's foundries with quality refractories for over 150 years.

LEADING UK FOUNDRY SUPPLIER | TRUSTED QUALITY PROVEN PERFORMANCE | 01422 364213 sales@johnwinter.co.uk

John Winter & Co Ltd, Washer Lane, Halifax, West Yorkshire HX2 7DJ

PRODUCT RANGE

METAL	PRODUCT	CLASSIFICATION	% ALUMINA	MAX GRAIN SIZE	MAX TEMP °C	DENSITY KG/M³
Al Aluminium	**Al60V**	Mid - Alumina Mullite forming lining for Aluminium melting.	61–63	5 mm	1700°C	2450–2550
	Al65V	Mid-Alumina Mullite forming powdered lining for Aluminium melting.	61–64	5 mm	1700°C	2450–2550
	Al65VSS	As Al 65V + 2% Stainless Steel Fibres to reduce cracking.	59–62	5 mm	1700°C	2430–2530
	Al93V	High - Alumina premium lining for melting Aluminium & Aluminium Master Alloys.	92–94	5 mm	1600°C	2770–2860
	Al93VSS	As Al 93V + 2% Stainless Steel Fibres to reduce cracking.	90–92	5 mm	1600°C	2750–2640
	ZR50PT	Zircon based refractory paint to protect induction furnace linings melting Aluminium alloys.	Zr 48–52%	0.07 mm	1750°C	1860–1900
Copper Alloys	**Cu60V**	Mid - Alumina Mullite forming lining for Copper base alloys with low temperature binder to enable use of reusable former.	61–64	5 mm	1700°C	2450–2550
	Cu68V	Mid - Alumina Mullite forming lining for Copper Alloys Foundries, melting higher temp copper alloys. Contains Silicon Carbide for high resistance to slag attack.	61–64	5 mm	1700°C	2450–2550
Iron	**Silica 0.8% BO**	High purity Microcrystalline Quartz lining containing 0.8% Boron Oxide.	SiO_2 – 98.0 – 99.0%	> 2 mm	1650°C	>2160
	Silica 0.8% FS	High purity Microcrystalline Quartz with 0.8% BO, containing Fused Silica providing improved thermal expansion.	SiO_2 – 98.0 – 99.0%	> 2 mm	1650°C	>2160
	Fe68V	Mid - Alumina Mullite forming lining with higher bonding strength containing Silicon Carbide providing improved slag resistance. Ideal for applications where both iron and steel are being produced.	61–64	5 mm	1700°C	2450–2550
Steel	**Fe83VS**	High-Alumina Spinel forming lining containing fused MgO Chrome refractory providing resistance to attack from Chromium rich slags. Ideal for Alloy Steel, Stainless Steel & High Chrome Irons.	86–88	5 mm	1750°C	2880–2960
	Fe85VC	High - Alumina Spinel forming lining for low and plain Carbon Steels	85–88	5 mm	1750°C	2850–3020
	Fe10VZ	Basic Lining for Manganese steels and ferro-alloys such as Ferro-Titanium. Contains Zircon to increase refractoriness and attack from Titanium and Manganese Oxides.	84–86% MgO	8 mm	1750°C	2800–2900
Mouldable	**HTP50Z**	Premium grade Mid - Alumina Phosphate bonded rameable refractory containing Zircon.	48–52% Al_2O_3 8–10% ZrO_2	5 mm	1650°C	2500
	HTP70	Alumina Phosphate bonded mouldable refractory.	68–72	5 mm	1700°C	2660
	Fe88P	High - Alumina Phosphate bonded mouldable refractory for steel applications.	88–90	3 mm	1800°C	2900–3000
	FE75P	Bauxite based Silicate bonded rameable refractory for general purpose applications.	71–75	5 mm	1800°C	2660
	HTP90	Plastic Sealing plaster for steel foundries - supplied mixed, or as Dry powder.	93–95	1 mm	1800°C	2840
Powder	**SIR Coat 90CM**	High Alumina premium Coil Screed.	90–92	1 mm	1700°C	2800–2850
	Magram 95	Induction furnace safety back up lining for use with preformed crucibles or hot face brickwork.	96–97% MgO	5 mm	1750°C	2600–2700

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