

Ladle Liners

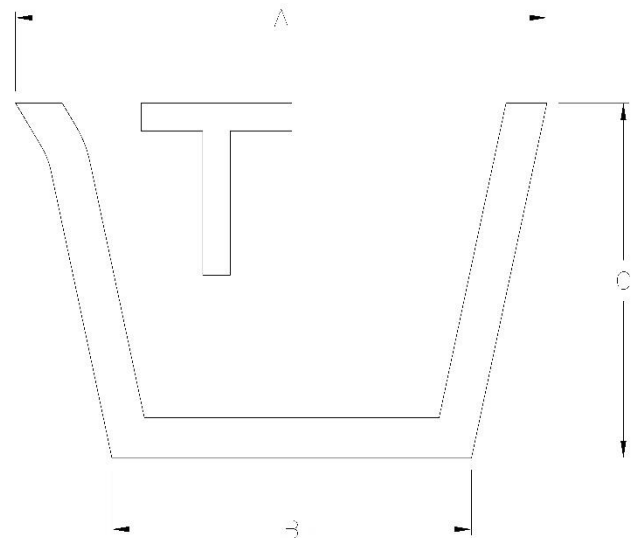


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Design/Purpose

Cleanliness of the metal is a highly significant factor when casting metal products.

Tea-pot transfer ladles are designed to hold back slag and other impurities whilst the cleanest metal pours from the base of the molten pool. Available in a number of designs, with rounded base or typically square, Magma Ceramics is on hand to provide the best quality ladle for your application.

Size

These ladles can be made with a working capacity from 10kg (22lb) to 500kg (1100lb).

The table overleaf shows a range of existing ladle designs which may suit your process parameters and specifications however, if you do have other specific requirements - PLEASE CONTACT US.

Materials

Ladle liners are available in a range of materials including Sillimanite, Mullite and High Alumina.

Because of the variety of manufacturing routes employed, not all patterns are available in all materials – PLEASE CHECK.

Installation

For safety and to obtain maximum performance ladle liners must be installed in a steel can using a suitable backing sand, such as PAG Ramming material, and installed in a similar way to crucibles. See the Crucible Installation Guide for further information.



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Ladle Liner Size and Material Ranges

Pattern	A mm	B mm	C mm	Approximate Working Capacity (kg)
LL1	257	102	345	25
LL3	257	102	345	25
N7549	241	162	260	35
N8156	250	200	315	55
LNA	311	229	294	65
N8117	310	225	280	65
N7516	290	225	350	85
LLN	333	250	333	100
LLP	333	250	328	100
N8028	290	225	430	105
N7525	350	250	440	142
N8181	397	357	430	210
N8320	515	450	500	350

Chemical Analysis & Physical Properties

	Fired Fused Mullite FM5T	Fired Alumina Mullite, AM91C	Fired Alumina FA2	70 CS Mullite R165	95C High Alumina R049
SiO ₂	20.5	8.50	2.60	24	2.8
TiO ₂	0.05	<0.05	<0.06	-	0.1
Al ₂ O ₃	79.0	87.5	97.50	74	96.7
Fe ₂ O ₃	0.05	0.05	<0.06	0.1	0.1
CaO/MgO	0.03	<0.03	<0.02	1.0	0.1
Na ₂ O/K ₂ O	0.22	<0.12	<0.02	0.3	0.3
ZrO ₂	0.0	3.60	0.0	0.0	0.0
A.P. (%)	19	19.5	23.0	20	22
B.D. (Kg/m ³)	2580	2960	2980	2400	3000



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