



CERAFLUX

An ISO 9001 Certified Company

**"The Only Indian Company Manufacturing
Wide Range of Metallurgical Products "**

CERAL SHAPES & JOINING AIDS

(The lining of metal transfer & metal handling systems, for aluminium and alloys)

THE PRODUCT :

It is a range of products made by the high alumino-silicate fibers &/or high alumina cement (asbestos free) in standard and non standard shapes like tundish, launders, distribution pans, spouts, troughs, transfer ladles etc. Joining aids consist of CERAL MASTIC's & CERAL CEMENT.

PRODUCT FUNCTION :

- CERAL SHAPES are having following advantages over other refractory materials :
- They are non-wettable to molten aluminium.
- They can withstand thermal shocks from 800C to room temperature without cracking.
- They can be cut or machined easily, so that lining of any curvature or critical shape is easy.
- Pre heating is not required.

Comparison of CERAL SHAPES with normal refractory lining		
	NORMAL REFRACTORY LINING	CERAL SHAPES
1	1.Wastage of metal due to sticking lowers down the yield of metal.	Non wetting property gives maximum yield of clean metal.
2	Loose refractory material which is bounded with Binder &/or hydraulic bond leads to refractory inclusion which affects the quality.	Pre shapes properly heat treated do not give any refractory inclusion hence pure metal is available.
3	Every time preheating is required which is a recurring cost.	Preheating is not required hence more economical.
4	Very short life & repeated patching leads to higher consumption of refractory material & thus more down time.	Life of lining is very high due to higher thermal shock resistance hence no recurring cost & down time
5	Individual lining cost is less but cumulative hidden cost of down time, heating & labour is Higher with chances of inclusions.	Basic cost is higher but still economical. No any further cost, Higher life & No Inclusions.

PRODUCT GRADE RANGE :

CERAL REGULAR

CERAL HIGH INSULATING

CERAL 142

CERAL HIGH STRENGTH

TYPICAL PROPERTIES OF CERAL REGULAR :

- Nature : White coloured pre cast shapes
- Density : 1.3 gm. / c.c.
- C.C.S. : 95.00+/-5.00 kg./cm²
- Temp. for continuous use : 800C
- Reaction with lubricating oil : Resistant
- Wet-ability to molten aluminium : Non-wettable
- Thermal conductivity : 0.48+/-0.1 W/mK at 800 C
- Linear thermal expansion % : 0.27+/-0.03

NOTE:- Above information is true and accurate based on controlled laboratory testing. However user is responsible for determining suitability for application at their end. No guarantee is implied since the condition in actual use differs widely & beyond our control.

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