



RAZON ENGINEERING COMPANY PRIVATE LIMITED

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AN ISO 9001-2008 COMPANY

M.G.C.C. Desulphuriser is specially developed for manufacturing S.G. Iron, covering years of extensive R & D efforts. Group 3 earth metals have high affinity for sulfur, correct and judicious selection of these elements and its compounds is vital for smooth and high efficient sulfur transfer from metal.

Our M.G.C.C. Desulphuriser is most ideal desulphurizer, having all the attributes most suited for highest efficiency sulfur transfer from metal to slag. The slag being completely dry with sulfur can be skinned easily. Further more catalytic constituent of M.G.C.C Desulphuriser ensure optimum possible efficiency of sulfur transfer from metal. Neutralizing & reactivity balancing constituent ensure furnace lining life is optimized.

M.G.C.C. Desulphuriser is mostly used for induction furnace metal which is subsequently nodularized. Sulfur transfer is facilitated by intimate contact with desulphurizer, which is facilitated by churning action characteristic of induction furnace metal melting. M.G.C.C. Desulphuriser has no effect on induction furnace lining. It is most ideal desulphuriser for line frequency , medium frequency or high frequency induction furnace melting. M.G.C.C. Desulphuriser is generally designed to provide very dry and powdery slag, which can be easily separated from the metal. Besides the sulphur is irreversibly tied up in the slag ensuring thorough desulphurising. M.G.C.C. Desulphuriser is designed to be a strong scavenger ensuring no inclusion in nodularized metal which ensures very high elongation characteristics of S.G.Iron test bars or casting. Greater fade out times is observed for M.G.C.C. Desulphurised Iron, further more considerable savings in consumption of nodularizer is observed.

METHOD: Tap metal as usual. To begin with charge 10-15% of metal into the furnace. Add carbon make up material, add M.G.C.C. Desulphuriser @ 0.4-0.6% of the total metal, add balance metal, switch on the furnace, melt as usual. M.G.C.C. Desulphuriser and carbon make up material is sandwiched for best results. Upon complete melting de-slag, check sulfur level, add ferro-alloys as usual and tap as usual.

Typical composition for induction metal desulphurized at 0.5% M.G.C.C. Desulphuriser

	Furnace Capacity	M.G.C.C. Desulphuriser	C %	Si %	Mn %	S %	P %	Cr %
Charged metal composition	2 Tonnes		3.73	1.64	0.175	0.023	0.069	0.046
Final metal composition after M.G.C.C. Desulphurising	2 Tonnes	10 kg (0.5%)	3.74	1.90	0.175	0.002	0.069	0.046

PRODUCT DATA

No	Property	Limits
1	Color	Whitish grey
2	Size	Granular, Controlled size distribution for optimum desulphurization
3	CaC ₂	70-80% , eutectic
4	Fe ₂ O ₃	0.7-1%
5	F C	0.5-1%
6	SiO ₂	1-2%
7	CaO	12-15%
8	F C	0-1%
9	Propriety Catalyst	6-8%
10	Dosage	0.5% of the weight of the metal
11	Specific Gravity	3.2
12	Packing	100 kgs hermetically sealed drums
13	Melting point	Eutectic 880 ⁰
14	Shelf Life	6 months in sealed containers
15	Method of use	Refer product literature above
16	Precautions	Protect from water. Reaction with water hazardous
17	MDS	Available.



It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable