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Revision No.: 00				Date: 22.06.2011	
Product Name:		TRL MGD 90			
Product Description:		Natural Sintered Magnesia based dense, high strength magnesite brick			
Application:		Hot Metal Mixer, Lime Kiln, Backup Lining of EAF,EOF etc.			
CONTROL PROPERTIES:					
Chemical Analysis (Calcined Basis)		Unit by wt	Value		Test Method
			Typical	Limit	
MgO		%	91.80	≥ 90.0	By XRF
SiO <sub>2</sub>		%	3.50	≤ 4.0	
Fe <sub>2</sub> O <sub>3</sub>		%	0.85		
Al <sub>2</sub> O <sub>3</sub>		%	0.64		
CaO		%	1.41		
Physical Properties		Unit			
Bulk Density		gm/cc	2.91		ISO 5017: 1998
App. porosity		Vol. %	17.0	≤ 18.0	ISO 5017: 1998
CCS		kg/cm <sup>2</sup>	588	≥ 500	ISO 10059-2:2003
SUPPLEMENTARY PROPERTIES (FOR INFORMATION ONLY):					
Property		Unit	Typical	Limit	Test Method
RUL (t <sub>a</sub> ) at 2 kg/cm <sup>2</sup>		°C	1620	≥ 1600	IS 1528- Part 2
PLC at 1500°C/2hrs		%	- 0.20		ISO 2478:1987
Thermal Expansion at 1000°C		%	1.30		IS 1528 (Part 19): 1991
Thermal Conductivity at 1000°C		W/mK	4.4		ISO 8894-2: 1987
Control Dimensions:		AQL 6.5% for critical dimensions (ISO 5022)			
Shelf Life		12 months from the date of manufacture when stored under shed and free from moisture			
Technology Manager					Signature:
Contact Address		TRL Krosaki Refractories Limited P.O.- Belpahar, Dist.- Jharsuguda, Odisha, Pin- 768 218, INDIA Phone: 91-6645-250286 Information department: Technology Division			

**Note:** 1) The typical technical data shown are based on average results on production samples and are subjected to normal variation on individual tests. Hence, it cannot be taken as specification.

2) The above specification is valid for solid pressed standard items only.