



(Formerly Tata Refractories Limited)  
**Product Definition Sheet**

**TRL CRAL 25P**

(F310072)

Revision No. : 01			Date: 25.09.2017	
Product Name		TRL CRAL 25P		
Product Description		Fired Alumina – Chrome Brick		
Application		Copper, Nickel, Lead, Zinc, Ferro Alloy, Incinerators, Glass tank furnace Regenerator Checkers etc.		
<b>CONTROL PROPERTIES</b>				
Chemical Analysis (Calcined Basis)	Unit By wt	Value		Test Method
		Typical	Limit	
Al <sub>2</sub> O <sub>3</sub>	%	63.5	≥ 60.0	By XRF
Fe <sub>2</sub> O <sub>3</sub>	%	0.66	≤ 0.85	
CaO+MgO	%	1.37	≤ 1.45	
SiO <sub>2</sub>	%	8.70	≤ 12.0	
Cr <sub>2</sub> O <sub>3</sub>	%	26.20	≥ 25.0	
<b>Physical Properties</b>		Unit		
Bulk Density	Kg/m <sup>3</sup>	3200	≥ 3150 for standard shape (Length ≤ 230.0 mm)	ISO 5017 : 1998
		3150	≥ 3100 for Complex & Other shape (Length ≥ 350.0 mm)	
Apparent porosity	Vol. %	18.8	≤ 20.0 for standard shape (Length ≤ 230.0 mm)	ISO 5017 : 1998
		20.6	≤ 22.0 for Complex & Other shape (Length ≥ 350.0 mm)	
CCS	N/mm <sup>2</sup>	65.0	≥ 60 for standard shape (Length ≤ 230.0 mm)	ISO 10059-2 : 2003
		50.0	≥ 45 for Complex & Other shape (Length ≥ 350.0 mm)	
<b>SUPPLIMENTARY PROPERTIES</b>				
PLC,1500°C/2hrs, Min/Max	%	+ 0.22	± 0.35	ISO 2478 : 1987 (Volumetric Method)
RUL(t <sub>a</sub> )	°C	1720	≥ 1680	IS 1528 (Part 2) : 2003
MOR at 1500°C	N/mm <sup>2</sup>	5.5	≥ 5.0	ISO 5013 : 1985
Thermal Shock resistance	Cycles	+05	≥ 05	DIN 51068
PCE	OC	+37	≥ 37	ISO 528 : 1983
Control Dimension	AQL 6.5% for critical dimensions (ISO 5022 Table – 3)			
Sampling/Acceptance	ISO 5022, Table 4 or Table 10(AQL4%)			
Shelf Life	36 months from the date of manufacture when stored under shed & free from moisture.		Signature:	
Prepared and Issued by	Technology Manager			
Contact Address	TRL Krosaki Refractories Limited P.O – Belpahar, Dist.- Jharsuguda Odisha, Pin-768218 ,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.**