



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

**TRL CRAL 30P**  
(F310071)

Revision No. : 00			Date: 15.07.2017	
Product Name		TRL CRAL 30P		
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>	%	54.5	≥ 52.0	By XRF
Fe <sub>2</sub> O <sub>3</sub>	%	0.64	≤ 0.70	
CaO+MgO	%	1.32	≤ 1.40	
SiO <sub>2</sub>	%	7.20	≤ 8.0	
Cr <sub>2</sub> O <sub>3</sub>	%	30.40	≥ 30.0	
<b>Physical Properties</b>		Unit		
Bulk Density	Kg/m <sup>3</sup>	3120	≥ 3050	ISO 5017 : 1998
Apparent porosity	Vol. %	20.5	≤ 22.0	ISO 5017 : 1998
CCS	N/mm <sup>2</sup>	60.0	≥ 55	ISO 10059-2 : 2003
<b>SUPPLIMENTARY PROPERTIES</b>				
PLC, 1600°C/2hrs, Min/Max	%	+ 0.17	± 0.35	ISO 2478 : 1987 (Volumetric Method)
RUL(t <sub>a</sub> )	°C	1740	≥ 1700	IS 1528 (Part 2) : 2003
MOR at 1500°C	N/mm <sup>2</sup>	4.5	≥ 4.0	ISO 5013 : 1985
Thermal Shock resistance	Cycles	+03	≥ 03	DIN 51068
PCE	OC	+38	≥ 38	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.