TRL KROSAKI

(Formerly Tata Refractories Limited)
Product Definition Sheet

TRL CRAL 10P
(F341030)

Revision No. : 12			Date:	05-10-2019

Product Name	TRL CRAL 10P
Product Description	Fired Alumina – Chrome – Zirconia Brick

CONTROL PROPERTIES

Chemical Analysis (Calcined Basis)	Unit By wt	Value		Test Method
		Typical	Limit	
Al_2O_3	%	85.5	≥ 82.0	By XRF
Cr_2O_3	%	9.5	≥ 9.0	
Physical Properties	Unit			
Bulk Density	Kg/m^3	3400 3250	≥ 3300 for standard shape ≥ 3200 for T&G shape	ISO 5017 : 1998
Apparent porosity	Vol. %	16.7 18.3	≤ 17.0 for standard shape ≤ 19.0 for T&G shape	ISO 5017 : 1998
CCS	N/mm^2	95.0 75.0	≥ 80 for standard shape ≥ 70 for T&G shape	ISO 10059-2 : 2003

SUPPLIMENTORY PROPERTIES

PLC,1550°C/2hrs, Min/Max	%	+0.02	± 0.1	ISO 2478 : 1987 (Volumetric Method)
$RUL(t_a)$	°C	1740	≥ 1700	IS 1528 (Part 2) : 2003
RTE at 1100°C	%	0.68	≤ 0.8	IS 1528 (Part 19) : 1991
Thermal Shock Resistance (950 °C with water)	Cycle	+ 45	≥ 40	DIN 51068 (Part 1)

INFORMATIVE PROPERTIES

ZrO_2	%	1.2	-	By XRF
SiO_2	%	2.10	-	
Thermal Conductivity	W/mK	3.00 (at 400°C) 2.90 (at 800°C) 2.80 (at 1000°C)	-	Cu calorimetric method with single brick
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			
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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.