

TRL KROSAKI
(Formerly Tata Refractories Limited)
Product Definition Sheet

TRL Cast LC 45

Revision No: 01

Date : 03.06.2020

Product Name **TRL Cast LC 45**

Product Description High Strength , High purity Low Lime Castable

Maximum Service temperature 1500°C

Disposal Recommendation Must not be disposed together with household garbage. Do not allow products to reach sewage system.

CONTROL PROPERTIES

Chemical Analysis	Unit by wt	Value		Test Method
		Typical	Limit	
Al ₂ O ₃	%	45.2	43 - 47	By Wet Chemical
SiO ₂	%	47.89		By Wet Chemical
Fe ₂ O ₃	%	1.49	1.30 - 1.80	By Wet Chemical
CaO	%	1.75		By Wet Chemical
Physical properties	Unit			
Bulk Density at 110°C/24 hrs	Kg/m ³	2300	2200-2350	BIS 10570
CCS at 110°C/24 hrs	N/mm ²	69	60 - 90	BIS 10570
CCS at 800°C/3 hrs	N/mm ²	82	60 - 90	BIS 10570
CCS at 1100°C/3 hrs	N/mm ²	88	70 - 100	BIS 10570
CCS at 1500°C/3 hrs	N/mm ²	111	90 - 110	BIS 10570
PLC at 1400°C/3 hrs	%	+0.43	≤ +/- 1.5	BIS 10570
Thermal conductivity				
At 400°C hot face	W/mk	1.04		BIS 9490
At 600°C hot face	W/mk	1.22		BIS 9490
At 800°C hot face	W/mk	1.46		BIS 9490
PCE	°C	+ 1680	≥ 1680	BIS - 1528
Maximum Grain size	mm	98.5% passing through 5 mm	≤ 5	
Shelf Life	6 months from the date of manufacture			
Technology Manager				Signature:
Contact Address	TRL Krosaki Refractories Ltd P.O – Belpahar, Dist.- Jharsuguda Odisha, Pin-768218 ,India Phone: 91-6645-250286 Information department: Technology Division			

N.B: 95% Min. will pass through the maximum grain size indicated.