



Product Definition Sheet

TRL SDG SPL

Revision No.: 09		Date: 10.12.2021		
Product Name:		TRL-SDG SPL		
Product Description:		Super Duty Silica Bricks for Glass Industries		
CONTROL PROPERTIES:				
Chemical Analysis (Calcined Basis)	Unit by wt	Value		Test Method
		Typical	Limit	
SiO ₂	%	96.14	≥96.00	By XRF
Al ₂ O ₃	%	0.28	-	
CaO	%	2.42	≤ 3.00	
Fe ₂ O ₃	%	0.35	-	
Flux Factor	%	0.44	≤ 0.50	
Residual Quartz	%	1.52	≤ 2.00	By XRD
Physical Properties	Unit			
Apparent Porosity	Vol. %	21.5	≤ 23.0	ISO 5017 : 1998
True Specific Gravity		2.33	-	IS 1528 Part 9:1995
Bulk Density	g/cc	1.82	-	ISO 5017 : 1998
CCS	N/mm ²	35	≥ 30	ISO 10059-2:2003
Supplementary Properties				
Property	Unit	Typical	Limit	Test Method
RTE at 1000°C	%	1.28	-	Dilatometer method
RUL (t _a)	°C	+1660	≥1650	DIN 51064
PCE	°C	+1710	≥1700	ISO 528 :1983
Control Dimension	As per AQL 6.5% for critical dimensions(ISO 5022 Table 3)			
Sampling / Acceptance	As per ISO 5022 Table 4/Table 10 (AQL 4%)			
Shelf Life	36 months from the date of manufacture when stored under shed and free from moisture			
Disposal Consideration:	May be disposed in an approved landfill unless contaminated in service. If contaminated with hazardous materials, place waste in suitable container. Seal and properly label the waste container. Send the container to an approved Transportation, Storage and Disposal (TSD) facility via an approved waste hauler. Be sure manifests have been completed and an adequate "Paper trail" has been established.			
Prepared & Issued by	Technology Manager			Signature:
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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.

3) Complicated shapes like Diamond point, Skew back, etc. AP: <24%, BD: >1.72g/cc and CCS: >200 kg/cm²