

Durafix[®] A-40T

for working lining - up to 1450°C

Grade		Fireclay brick A-40T	
Maximum service temperature	°C	1450	
	°F	2552	
Bulk density, dry (EN 993-1)	kg/m ³	2050	
	lbs/cu.ft.	128	
Cold crushing strength (SRPS/EN ISO 8895_2006)	MPa	50	
	lbs/sq.in.	5076	
Termal expansion at 1200°C	%	+0.64	
Linear permanente change at 1400°C	%	+0.2/-0.2	
Total porosity (EN 1094-4:1995)	%	16	
Permeability to gases (EN 993-4:1995)	nPm	0.1	
Specific heat @ 700°C	kJ/(kg×K)	1.05	
	BTU/(lb×°F)	0.3	
Coefficient of reversible thermal expansion @ 20 - 750°C (68 - 1382°F)	x10 ⁻⁶ K ⁻¹	0.7	
	x10 ⁻⁶ °F ⁻¹	0.4	
Resistance to thermal shock (EN 993-11:1998)	Cycles	34	
Pyrometric cone equivalent (ASTM C24-01 Orton cones)	°C	1740	
	°F	3164	
Thermal conductivity (ASTM C-182)	mean temp. @ 200°C	W/(m×K)	1.20
	@ 400°C		1.30
	@ 600°C		-
	@ 800°C		-
	@ 1000°C		1.40
	@ 1200°C		1.45
Chemical analysis, typical			%
Silica	SiO ₂		50.0
Titanium dioxide	TiO ₂		1.3
Ferric oxide (max)	Fe ₂ O ₃	Max	2.0
Alumina	Al ₂ O ₃		44.0
Magnesium oxide	MgO		-
Calcium oxide	CaO		-
Loss on ignition	LOI		-
HS Tariff number (Harmonized Commodity Description and Coding System)			6901.00.00
Abrasion losses cm ³ (ASTM C 704-800°C)			9.32

Data are average results of tests conducted under standard procedures and are subject to variation. Data contained in this data sheet are supplied in good faith as a technical service and are subject to change without notice. Misprint and errors excepted.