

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/m³	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 x10⁻⁶ °F⁻¹	0.7 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)
	@ 400°C	1.20
	@ 600°C	1.30
	@ 800°C	-
	@ 1000°C	-
	@ 1200°C	1.40
		1.45
Chemical analysis, typical		%
Silica	SiO₂	50.0
Titanium dioxide	TiO₂	1.3
Ferric oxide (max)	Fe₂O₃	Max 2.0
Alumina	Al₂O₃	44.0
Magnesium oxide	MgO	-
Calcium oxide	CaO	-
Loss on ignition	LOI	-
HS Tariff number (Harmonized Commodity Description and Coding System)		6901.00.00
Abrassion losses cm³ (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.