



PRODUCT DATA

Brand Name: QUIKLITE 3A-DS

Description: QUIKLITE 3A-DS is a dust suppressed, lightweight castable formulated for use in reducing atmospheres. This product can be installed by casting or conventional gunning methods. QUIKLITE 3A-DS features a reduced dust level and low iron oxide content. After the initial set, QUIKLITE 3A-DS can be initially heated without using the traditional ramp-and-hold heatup schedule. Use the recommended QUIKTURN heatup schedule for the initial heatup.

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 2500°F (1370°C)

Typical Water Required for Mixing (by weight) :

Casting 41.5%
Predampening for Gunning 8.3 to 10.4%

	Casting Data		Gunned Data	
Bulk Density (pcf)				
After 1500°F (815°C)	65	(1.04 g/cm ³)	70	(1.12 g/cm ³)
Cold Crushing Strength (psi)				
After 1500°F (815°C)	600	(42 kg/cm ²)	425	(30 kg/cm ²)
Apparent Porosity (%)				
After 1500°F (815°C)	50.0%		45.0%	
Thermal Conductivity (K Factor)	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	1.4	0.20	1.85	0.27
1000°F (538°C)	1.6	0.23	2.35	0.34
1500°F (815°C)	1.7	0.25	2.5	0.36
Permanent Linear Change (%)				
Green to 1500°F (815°C)	-0.6 to 0.0		-0.5 to 0.0	
220°F (105°C) to 1500°F (815°C)	-0.5 to 0.0		-0.4 to 0.0	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	41.9
Silica (SiO ₂)	44.6
Lime (CaO)	10.4
Iron Oxide (Fe ₂ O ₃)	1.0
Titania (TiO ₂)	0.8
Magnesia (MgO)	0.1
Alkalies (Na ₂ O+K ₂ O)	1.2

Standard Packaging: 50 lb bag. 50 bags per pallet. Bulk packaging available.

Brand Code: 1696

The properties shown on this data sheet represent typical average results using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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06/14/22 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet.

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