



Atlas Minerals & Chemicals, Inc.



DATA SHEET

8-65PS (8-13)
Supersedes 8-65PS (3-04)

T-VITROBOND 120 SPECIFICATION

DESCRIPTION

The jointing compound must contain at least 55% sulfur completely soluble in carbon disulfide. It must contain not more than 43% of a properly selected aggregate. The aggregate must be at least 90% silica and have a particle size so distributed as to give optimum physical properties. No clay, shale, brick dust or similar fillers shall be used. The product shall contain polysulfide rubber plasticizer. This cement must meet ASTM C287 for chemical resistant mortars and must show weight change of less than 1% when 1" cylinders are exposed to the following corrosive materials for 30 days at 150°F (66°C):

- 10% Chromic Acid
- 60% Acetic Acid
- 25% Sulfuric Acid
- 25% Hydrochloric Acid
- 10% Nitric Acid

The compound must act as an electrical insulator and show no passage of current when electrodes are placed apart a distance of 1/2" on the surface under a potential of 45 volts.

PREPARATION OF T-VITROBOND 120

1. Break up ingots and place in a thermostatically controlled electrical melting pot. Melt the T-VITROBOND 120 and stir occasionally or maintain stirring until all is melted. The recommended pouring temperature range is from 275°F (135°C) to 295°F (146°C).
NOTE: T-VITROBOND 120 will start to melt at lower temperatures.
2. DO NOT heat above suggested pouring temperature. Ignition of the T-VITROBOND 120 could occur at temperatures above 320°F (160°C). If ignition occurs, turn off unit and cover the melting pot. Also, at temperatures above recommended pouring temperature T-VITROBOND 120 will increase in viscosity and will lose physical properties. Burning or over heating will render T-VITROBOND 120 useless.

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUE
Density	ASTM C905	137 lb./cu. ft. (2.19 g./cc.)
Tensile Strength, 48 hours @ 77°F (25°C)	ASTM C307	400 psi., min. (2.76 MPa)
Compressive Strength, 48 hours @ 77°F (25°C)	ASTM C579	4,000 psi., min. (27.6 MPa)
Flexural Strength, 48 hours @ 77°F (25°C)	ASTM C580	1,000 psi., min. (6.89 MPa)
Coefficient of Thermal Exp. in./in./°F (cm./cm./°C)	ASTM C531	3.3 x 10 ⁻⁵ max. (5.9 x 10 ⁻⁵)
Strength Retained after Thermal Shock	ASTM C287	150 psi., min. (1.03 MPa)
Tend. of Aggregate to Settle, Max. Variation from Unity	ASTM C287	0.15

3. If the molten T-VITROBOND 120 foams due to entrapped air or moisture, continue heating and stirring until smooth again, making certain not to exceed recommended pouring temperatures.

PRODUCT SPECIFICATION

The system shall be T-VITROBOND 120 as manufactured by Atlas Minerals & Chemicals, Inc.

NOTE: ATLAS makes it a practice to continuously update and enhance our CCM (Corrosion Resistant Construction Materials) products. For the most recent version of any Data Sheet, please visit our Web site at www.atlasmin.com.