



AR-400® VC QT CASTABLE TS LEJ10129 MX1N CASB

Monolithic Refractory
Product Information

Revision: J.00

Date: 06 Dec 2013

AR-400® VC QT is a unique, alumina-zirconia-silica-based high strength castable designed specifically for vibration placement. This product resists the highly erosive environment of petrochemical and refinery vessels. It is designed specifically for hydrocarbon processing applications and can be gunned or vibration cast.

Service Temperature:	2400 °F	Material Required:	165 lb/ft ³
Typical Water Required:	7.7 %	Maximum Grain Size:	4 Mesh US Sieve
Abrasion Resistance C-704, (Loss - Fired to 1500°F/816°C):	4-7 cc		

Chemical Analysis

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	Na ₂ O + K ₂ O	ZrO ₂	Other
9.8	59.3	0.6	7.4	0.3	0.8	21.5	0.1

Typical Physical Properties

Tested in accordance with International and ASTM Standards

Prefired to (°F)	Bulk Density (lb/ft ³)	Cold Crushing Strength (psi)	Cold Modulus of Rupture (psi)	Permanent Linear Change (%)
230	172	11900	1850	-
1000	-	-	1825	-0.1
1500	163-173	>12500	-	<-0.3
2000	-	-	1740	0.3

Other Physical Properties

Tested in accordance with International and ASTM Standards

Prefired to (°F)	Apparent Porosity (%)	Thermal Conductivity (Btu.in/h.ft ² .F)	Hot Modulus of Rupture (psi)	Permanent Volume Change (%)
1500	-	11.5	2200	-
2000	-	11.0	1240	-

Formerly: AR-400® VC (WITH QT)

Drying & Firing:	LEJ.1801	Installation Method:	N/A	Mixing / Installation:	LEJ.1102
Shotcreting:	N/A	Pumping:	N/A	MSDS Reference:	LEJ10129

The physical and/or chemical properties and specifications of the product set forth above represent typical average results obtained in accordance with generally accepted standard test methods conducted under controlled conditions, and are subject to normal manufacturing variations. Vesuvius reserves the right to modify the properties and specifications at any time without prior notice.

NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS INFORMATION, THE SUITABILITY OF THE PRODUCT FOR A PARTICULAR PURPOSE, OR THE RESULTS TO BE OBTAINED BY THE USE OF THE PRODUCT. USERS EXPRESSLY ASSUME ALL RISKS AND LIABILITIES ARISING FROM THE USE OF OR RELIANCE UPON THIS INFORMATION.