


Emhart Glass 59-94657 - Material Technical Data Sheet

Mix ID:	59-94657			
Mix Name:	EmCast 25			
Type:	Castable			
Application:	Lightweight castable designed for orifice ring and spout insulation. The material has good insulating properties, and is a functional refractory backup insulation layer primarily orifice ring applications. Will form to complex shells and fill voids when casting.			
Typicals:	Density:	25 lbs/ft³	Chemistry:	Wt.%
 REFRACTORY PRODUCTS	Water to Material Ratio:	1:1 by weight	Al₂O₃	40
	Max Service Temperature:	1370°C (2500°F)	SiO₂	30
	Linear Change (C865):	-1 to -2%	ZrO₂	NA
	MOR:	20 – 30 psi @ 230°F	Fe₂O₃	<1
	Cold Crushing Strength:	60 – 70 psi @ 230°F	NaO	NA
		70 – 120 psi @ 1500°F	CaO	23
	Max Grain Size:	2.4 mm (8 mesh)	MgO	NA
			TiO₂	NA
			Other	<7

Thermal Conductivity W/m•K (Btu•in./h•ft²•°F)

260°C (500°F)	0.12 (0.8)
540°C (1000°F)	0.14 (1.0)
816°C (1500°F)	0.16 (1.1)
1100°C (2000°F)	0.19 (1.3)

All data is subject to reasonable deviations and not to be used for specification purposes.