



# TECHNICAL DATA

## FURNACON™ 50-W

LOW CEMENT CASTABLE FOR ALUMINUM CONTACT

Recommended Service Temperature Limit For	
:Aluminum Non-Wetting	2200°F
:All Other Applications	2800°F
Water Required for Mixing	
: Vibration	4.5 - 6.0%
Material Required Per Ft <sup>3</sup>	138-142 lb
Packaging	55 lb bag

TEMPERATURE (°F)	BULK DENSITY (lb/ft <sup>3</sup> )	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in <sup>2</sup> )	COLD CRUSH STRENGTH (lb/in <sup>2</sup> )	APPARENT POROSITY (%)
220	143-147	0.0 to -0.4	1600-2300	8000-12000	-----
1500	143-146	0.0 to -0.4	1500-1900	7000-11000	7 - 13
2200	143-146	-0.1 to -0.5	1000-1500	8000-12000	7 - 13
2550	135-140	0.3 to 0.7	1300-2500	7100-11600	8 - 15
2732	132-139	0.4 to 1.9	1100-2400	5100-10500	7 - 13

**CHEMICAL ANALYSIS: (Ignited)**

Al <sub>2</sub> O <sub>3</sub> .....	45.6%
SiO <sub>2</sub> .....	47.8
Fe <sub>2</sub> O <sub>3</sub> .....	1.3
TiO <sub>2</sub> .....	1.8
CaO .....	1.5
MgO .....	0.3
Alkalies .....	1.8

**THERMAL CONDUCTIVITY: ASTM C-1113**

Mean Temperature (°F)	K-Factor (BTU-in/hr-ft <sup>2</sup> °F) Pour Cast
1000.....	11.4
1500.....	12.8
2000.....	13.9

**ALUMINUM CUP TEST**  
7075 Alloy, 1500°F, 72 Hours  
**SILICON PICKUP RATIO**  
220°F..... 1.7

The properties shown on this data sheet represent typical average results generated 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.

RESKO PRODUCTS disclaims any express or implied warranties based on this sheet.

02/05/08 is the date that this data sheet was updated. Check with your RESKO sales representative or RESKO website to determine you have the current sheet.