

# VERSAFLOW<sup>®</sup> 57A PLUS



## Product Data

Ref:249/14/03/13

Description: 57% Alumina, Andalusite based low cement castable

- Features:
- Installation versatility allows installation by various methods
  - High hot strength.
  - Low porosity equal to comparable fired brick formulations.
- Uses:
- Ideal for cyclical temperature applications where thermal shock resistance is needed.

### Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO <sub>2</sub>	35.3%
Alumina - Al <sub>2</sub> O <sub>3</sub>	61.1%
Titania - TiO <sub>2</sub>	0.6%
Iron Oxide - Fe <sub>2</sub> O <sub>3</sub>	0.5%
Lime - CaO	2.0%
Magnesia - MgO	0.1%
Alkalies - Na <sub>2</sub> O + K <sub>2</sub> O	0.2%

### Physical Properties

Maximum Recommended Temperature	Vibration Cast 1650°C
Quantity Required	2515 Kgs/m <sup>3</sup>
Water required for mixing per 100 Kgs	5.5 - 6.5 Litres Approximately
Bulk Density	Kgs/m <sup>3</sup>
After Heating at 105°C	2480 - 2640
After Heating at 815°C	2480 - 2580
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	7.0 - 11.0
After Heating at 815°C	7.0 - 12.0
After Heating at 1095°C	7.0 - 12.0
After Heating at 1370°C	7.0 - 11.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	50.0 - 90.0
After Heating at 815°C	60.0 - 105.0
After Heating at 1095°C	60.0 - 105.0
After Heating at 1370°C	60.0 - 95.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	<0.05%
After Heating at 815°C	0 - 0.3% Exp
After Heating at 1095°C	0 - 0.5% Exp
After Heating at 1370°C	0 - 1.0% Exp
After Heating at 1480°C	0 - 1.3% Exp
After Heating at 1650°C	0 - 1.5% Exp
Apparent Porosity	
After Heating at 105°C	14.0%
After Heating at 815°C	18.0%
After Heating at 1370°C	18.0%
Thermal Conductivity	W/mK
At 205°C	1.56
At 425°C	1.64
At 650°C	1.72
At 870°C	1.79
At 1095°C	1.86
At 1315°C	1.92
Shelf Life (Under Proper Storage Conditions)	180 days

Note: The test data shown are based on average results of control tests and are subject to normal variation on individual tests. These results cannot be taken as maximum or minimum requirements for specification purposes.

MSDS, Installation Guidelines and Dry Out Schedules are also available.

ANH Refractories Europe is part of the ANH group a family of companies incorporating AP Green, Narco and Harbison Walker.

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