

# VERSAFLOW<sup>®</sup> 55/AR C PLUS

## Product Data

Ref: 241/14/03/13

Description: 55% Alumina, low cement castable.

- Features:
- Excellent alkali resistance.
  - Excellent abrasion resistance.
  - High hot strength at 1095°C.
  - High refractoriness.
  - Flowable feature enables product to be vibration cast, poured, or pumped with slight adjustment to water addition.
- Uses:
- Aluminum Furnaces - Upper sidewalls and roofs, diecast furnaces.
  - Steel Industry - Ladle covers, tundish covers.
  - Cement Industry – Preheater maintenance.
  - Incineration - Charging zones, burners, rotary kilns.

### Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO <sub>2</sub>	36.5%
Alumina - Al <sub>2</sub> O <sub>3</sub>	57.3%
Titania - TiO <sub>2</sub>	2.2%
Iron Oxide - Fe <sub>2</sub> O <sub>3</sub>	1.0%
Lime - CaO	2.8%
Magnesia - MgO	0.1%
Alkalies - Na <sub>2</sub> O + K <sub>2</sub> O	0.2%

### Physical Properties

	Vibration Cast
Maximum Recommended Temperature	1540°C
Quantity Required	2390 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	2430 - 2580
After Heating at 815°C	2400 - 2500
Modulus Of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	9.0 - 15.0
After Heating at 815°C	14.0 - 20.0
After Heating at 1095°C	10.0 - 16.0
Hot Modulus Of Rupture	MPa
At 1095°C	13.8
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	80.0 - 105.0
After Heating at 815°C	65.0 - 90.0
After Heating at 1095°C	60.0 - 85.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	Negligible
After Heating at 815°C	0.3% Shr
After Heating at 1482°C	1.6% Exp
Abrasion Loss - ASTM C704	CC Loss
After Heating at 815°C	6.0
Thermal Conductivity	W/mK
At 200°C	1.59
At 400°C	1.60
At 600°C	1.63
At 800°C	1.68
At 1000°C	1.76
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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