

# THOR 60 ADTECH®

## Product Data

Ref:235/31/10/12

Description: 60% Silicon Carbide, Low Cement Castable.

- Features:
- Exhibits excellent strengths and high densities.
  - Abrasion resistant.
  - High thermal conductivity.
  - Can be pumped or cast.

- Uses:
- Demanding abrasion-resistant applications.

### Chemical Analysis: Approximate (Calcined Basis)

Silicon Carbide - SiC	63.6%
Silica - SiO <sub>2</sub>	15.4%
Alumina - Al <sub>2</sub> O <sub>3</sub>	18.3%
Titania - TiO <sub>2</sub>	0.2%
Iron Oxide - Fe <sub>2</sub> O <sub>3</sub>	0.2%
Lime - CaO	2.1%
Alkalies - Na <sub>2</sub> O + K <sub>2</sub> O	0.1%

### Physical Properties

	Vibration Cast
Maximum Recommended Temperature	1540°C
Quantity Required	2514 Kgs/m <sup>3</sup>
Water required for mixing per 100 Kgs	5.0 - 6.0 Litres Approximately
Bulk Density	Kgs/m <sup>3</sup>
After Heating at 105°C	2450 - 2625
After Heating at 815°C	2450 - 2550
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 105°C	11.0 - 20.0
After Heating at 815°C	15.0 - 25.0
After Heating at 1095°C	12.0 - 22.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	75.0 - 105.0
After Heating at 815°C	75.0 - 105.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 815°C	0.2% Shr
Abrasion Loss - ASTM C704	cc
After Heating at 815°C	6.5
Thermal Conductivity	W/mK
At 200°C	6.39
At 400°C	6.01
At 600°C	5.92
At 800°C	5.9
At 1000°C	5.87
At 1500°C	5.58
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.