

# ECLIPSE -80 P ADTECH®



## Product Data

2/14: 4757

Description: Phosphate-Bonded, Silicon-Carbide Plastic Refractory

### Chemical Analysis: Approximate

Silicon Carbide (SiC)	77.9%
Alumina (Al <sub>2</sub> O <sub>3</sub> )	9.8%
Silica (SiO <sub>2</sub> )	7.4%
Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> )	4.0%
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.3%
Lime (CaO)	0.2%
Magnesia (MgO)	0.1%
Titania (TiO <sub>2</sub> )	0.1%
Alkalies (Na <sub>2</sub> O + K <sub>2</sub> O)	0.2%

### Physical Data (Typical)

Maximum Service Temperature	2900°F (1593°C)
Material Required	167 lb/ft <sup>3</sup> (2.67 g/cm <sup>3</sup> )
Bulk Density	lb/ft <sup>3</sup> (g/cm <sup>3</sup> )
After 600°F (315°C)	153 (2.45)
After 1500°F (816°C)	152 (2.43)
Cold Crushing Strength	lb/in. <sup>2</sup> (MPa)
After 1500°F (816°C)	5,500 (37.9)
Permanent Linear Change	
After 1500°F (816°C)	-1.0%
Abrasion Loss	
After 1500°F (816°C)	12 cc

Note: The test data shown are based on average results on production samples and are subject to normal variation on individual tests. The test data cannot be taken as minimum or maximum values for specification purposes. ASTM test procedures used when applicable.

### Mixing and Using Information

Material is supplied ready to use.

### Heatup/Dryout Schedule

See HWI Dryout Schedule 5—Standard Rams and Plastics.

### Installation Guidelines

See HWI Installation Guidelines P-1—Plastics.

Shelf Life (Under Proper Storage Conditions) 90 days