

FUSED SILICA  
HOT PRESS PLATENS  
CASTABLE CERAMICS  
FIRED SHAPES  
AEROSPACE TOOLING

# Foundry Service & Supplies, Inc.

11808 E. Burke Street, Santa Fe Springs, CA 90670  
Telephone: (562) 945-6511  
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HI-TEMP INSULATIONS  
CALCIUM SILICATE BOARDS  
MILLBOARD AND BLANKET  
PAPERS AND CEMENTS  
CUTTING AND FABRICATING

## CLIPPER<sup>®</sup> DP

### Technical Data

#### PYROMETRIC CONE EQUIVALENT - ASTM C24

Orton Standard Cones .....		33 - 34	
Temperature Equivalent .....	3187°F		1753°C

#### REHEAT (Permanent Linear Change) - ASTM C113

Contraction or Expansion at 2910°F (1600°C) ....	0.3% Contr.
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#### HOT LOAD TEST - ASTM C16

Deformation at 2640°F (1450°C) .....	1.3%
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#### PANEL SPALLING TEST - ASTM C122

Preheat at 3000°F (1650°C) - Spalling Loss .....	1.0%
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#### APPARENT POROSITY - ASTM C20.....

15.3%

#### BULK DENSITY - ASTM C20 .....

<u>lb/ft<sup>3</sup></u>	<u>g/cm<sup>3</sup></u>
142	2.27

#### MODULUS OF RUPTURE - ASTM C133 .....

<u>lb/in<sup>2</sup></u>	<u>MPa</u>
1350	9.3

#### COLD CRUSHING STRENGTH - ASTM C133.....

6300	43.4
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#### THERMAL CONDUCTIVITY

At a Mean Temperature of	<u>Btu-in/hr-ft<sup>2</sup>°F</u>	<u>W/m·°C</u>
400°F (205°C).....	8.6	1.24
800°F (425°C).....	8.9	1.28
1200°F (650°C).....	9.1	1.31
1600°F (870°C).....	9.3	1.34
2000°F (1095°C).....	9.7	1.40
2400°F (1315°C).....	10.1	1.46

The test data shown are based on average results on production samples and are subject to normal variation on individual tests. Accordingly, test data cannot be taken as establishing maximum or minimum specifications.

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### Super Duty Fireclay Brick

**CLIPPER<sup>®</sup> DP** is a dry pressed super duty firebrick. **CLIPPER<sup>®</sup> DP** exhibits good strengths, low shrinkage, and good resistance to thermal shock conditions. Typical applications are: carbon baking pit furnace fluewalls and headwalls, air heaters, combustion chambers, furnace flues, furnace stacks, rotary kilns, and graphitizing furnaces.

#### CHEMICAL ANALYSIS - Calcined Basis

Silica - SiO <sub>2</sub> .....	52.6%
Alumina - Al <sub>2</sub> O <sub>3</sub> .....	42.2%
Iron Oxide - Fe <sub>2</sub> O <sub>3</sub> .....	1.4%
Lime - CaO.....	0.2%
Magnesia - MgO .....	0.3%
Titania - TiO <sub>2</sub> .....	2.3%
Alkalies - Na <sub>2</sub> O + K <sub>2</sub> O.....	0.9%