



Product Data

9/03: 5196

CLIPPER® DP

Classification: Super Duty Fireclay Brick

Physical Data: (Typical)

English Units

SI Units

Pyrometric Cone Equivalent
Orton Standard Cones

33 – 34

Reheat (Permanent Linear Change)
At 2910°F (1600°C)

-0.3%

Hot Load Test
Deformation at 2640°F (1450°C)

1.3%

Apparent Porosity

15.3%

	<u>lb/ft³</u>	<u>g/cm³</u>
Bulk Density	142	2.27

	<u>lb/in²</u>	<u>MPa</u>
Modulus of Rupture	1350	9.3

Cold Crushing Strength	6300	43.4
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Thermal Conductivity At a Mean Temperature of	<u>Btu-in/hr-ft²-°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

Chemical Analysis: Approximate
(Calcined Basis)

Silica	(SiO ₂)	52.6%
Alumina	(Al ₂ O ₃)	42.2
Titania	(TiO ₂)	2.3
Iron Oxide	(Fe ₂ O ₃)	1.4
Lime	(CaO)	0.2
Magnesia	(MgO)	0.3
Alkalies	(Na ₂ O+K ₂ O)	0.9

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.