



PRODUCT DATA

Brand Name:

LW-32
INSULATING FIRE BRICK

Physical properties shown are averages based on standard brick sizes.
ASTM test methods used where applicable

Maximum Service Temperature: 3200°F (1760°C)

Bulk Density (pcf)

As Received 75 (1.20 g/cm³)

Modulus of Rupture (psi)

At 70°F (21°C) 300 (21 kg/cm²)

Cold Crushing Strength (psi)

At 70°F (21°C) 450 (31.5 kg/cm²)

Permanent Linear Change (%)

After 3150°F (1732°C) -0.4

Thermal Conductivity (K Factor)

Mean Temperature	BTU/ft ² /hr./°F/inch	W/mK
500°F (260°C)	3.9	0.56
1000°F (537°C)	4.1	0.59
1500°F (815°C)	4.2	0.60
2000°F (1093°C)	4.3	0.62

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	78.3
Silica (SiO ₂)	20.7
Iron Oxide (Fe ₂ O ₃)	0.2
Titania (TiO ₂)	0.5
Lime (CaO)	0.1
Magnesia (MgO)	0.1
Alkalis (Na ₂ O+K ₂ O)	0.1

Brand Code: 4914

The properties shown on this data sheet represent typical average results using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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