



# PRODUCT DATA

**Brand Name:** **LW-20**  
**Description:** INSULATING FIRE BRICK

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

**Maximum Service Temperature: 2000°F (1093°C)**

**Bulk Density (pcf)**

As Received	38 - 44	(0.61 - 0.70 g/cm <sup>3</sup> )
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**Modulus of Rupture (psi)**

At 70°F (21°C)	110 - 160	(7.7 - 11.2 kg/cm <sup>2</sup> )
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**Cold Crushing Strength (psi)**

At 70°F (21°C)	140 - 220	(9.8 - 15.5 kg/cm <sup>2</sup> )
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**Thermal Conductivity (K Factor)**

Mean Temperature	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
1000°F (537°C)	1.30 - 1.40	0.19 - 0.20
1500°F (815°C)	1.60 - 1.70	0.23 - 0.25
2000°F (1093°C)	1.75 - 1.90	0.25 - 0.27

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	42.0
Silica (SiO <sub>2</sub> ) .....	44.0
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	0.6
Titania (TiO <sub>2</sub> ) .....	1.7
Lime (CaO) .....	11.0
Magnesia (MgO) .....	0.2
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.6

Brand Code: 4452

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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