



## Product Data Sheet

Product Description	Dymax BP®	
	Direct bonded magnesite chrome based on high Cr <sub>2</sub> O <sub>3</sub> content fused grain with chrome boost	
	SI	Imperial
<b>Chemical Analysis (%)</b>		
SiO <sub>2</sub>		1.70
Fe <sub>2</sub> O <sub>3</sub>		11.00
Al <sub>2</sub> O <sub>3</sub>		7.00
Cr <sub>2</sub> O <sub>3</sub>		21.5
CaO		1.00
MgO		57.0
<b>Physical Properties</b>		
Apparent Porosity (%)		16.5
Bulk Density (g/ml) (lb/ft <sup>3</sup> )	3.15	191.3
Cold Crushing Strength (MN/m <sup>2</sup> ) (lb/in <sup>2</sup> )	60	8700
<b>Permanent Linear Change on Reheating (%)</b>		
2h @1700°C		0
<b>Modulus of Rupture (MN/m<sup>2</sup>) (lb/in<sup>2</sup>)</b>		
0025°C	5.3	768
1400°C (2552°F)	4	725
<b>Reversible Thermal Expansion (%)</b>		
20 - 1000°C		0.95
20 - 1400°C		1.25
<b>Thermal Conductivity (w/mK) (BTU ft<sup>2</sup>h°F)</b>		
Mean Temperature 500°C	4.0	27.8
Mean Temperature 700°C	3.7	25.6
Mean Temperature 900°C	3.7	25.6
Mean Temperature 1300°C	3.3	22.9

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The data presented are typical, and not contractual conditions of acceptance. The data presented are average values obtained by laboratory testing of production volumes. The extent and frequency of such testing is defined by the internal procedures of the Quality Management System according to EN ISO 9001:2000 standard.

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