



GRAFTech

International

HotPressed™ Refractory Systems

CS™ GRAPHITE

Description: Petroleum coke based low ash and low iron graphite for blast furnace linings, hearth, stack, bosh, tuyere, tapholes and side wall blocks. Features excellent thermal conductivity, high density, high strength, and excellent machinability. Through additional processing steps, CS™ Graphite has higher density, strength, and thermal conductivity than CBY™ Graphite.

ESSENTIAL PROPERTIES	Typical Average	Min./Max. Individual Sample	Comparable ASTM Test Procedure
Bulk Density (gm/cc)	1.71	1.67	ASTM C559
Crushing Strength (kPa) (AG)	42000	30000	ASTM C695
Ash (percent)	0.10	0.32	ASTM C561
INFORMATIONAL PROPERTIES			
Porosity (percent)	16		ASTM C20
Flexural Strength (kPa)	19000		ASTM C651
Iron (percent)	0.040		ASTM C560
Permeability (m'darcy's)	70		ASTM C577
Thermal Conductivity (W/m ² K) (WG) @ 20°C	160	140	ASTM C714



GRAFTech
International

GrafTech International Holdings Inc.

791 Santa Fe Pike

Columbia, Tennessee, USA 38401

Phone: 1.800.934.8227 (U.S. and Canada Only)

1.931.380.4348

Fax: 1.931.380.4308

email: refractory.systems@graftech.com

Visit us on the World Wide Web at www.graftech.com

TECHNICAL INFORMATION
RPD-08 JANUARY, 2008

This information is based on data believed to be reliable but GrafTech makes no warranties, express or implied, as to its accuracy and assumes no liability arising out of its use. The data listed falls within the normal range of product properties but should not be used to establish specification limits or used alone as the basis of design. GrafTech's liability to purchasers is expressly limited to the terms and conditions of sale. NMA, HotPressed, NMD, NML, NMP, NMH, CJR, CS, CSX, CBY, GradeD, UCB, RP3, RP4, EZRam, SmartRam, CP9, C34, C38, C46, and GR37 are all trademarks of GrafTech International Holdings Inc. ©2008 GrafTech International Holdings Inc.