

UCAR® Grade LFX™ GRAPHITE ELECTRODES

A premium quality
electrode for your ladle
furnace



UCAR® Grade LFX™ Graphite Electrodes are specifically designed for ladle furnaces, with every aspect engineered to meet the demands of the application. Our stringent quality systems and attention to manufacturing detail produce electrodes that ladle operators can rely on.

UCAR® Grade LFX™ Graphite Electrodes benefit from the GrafTech Service and Solutions:

- Global experienced sales team located around the world that provides continuous support and advice to address customer-specific needs.
- Customer Technical Service multi-disciplinary engineers with extensive know-how in the steel and electrode industry who provide consultation services and solutions in furnace operations and efficiency.



UCAR® Grade LFX™ Graphite Electrodes Properties¹

ELECTRODES LFX™		Testing Method ²	Diameter 250-350mm 10-14"	Diameter 400-500mm 16-20"
Bulk density	g/cm ³	Full Piece	1.67 - 1.78	1.67 - 1.73
Specific resistance	μOhm.m	Full Piece	5.0 - 6.0	5.1 - 5.8
Flexural strength	MPa	4 Points Bending	10.0 - 13.0	9.0 - 12.0
Coefficient of thermal expansion	mm/mm/°K 10 ⁻⁶	PATE ³ RT to 100°C	0.3 - 1.2	0.4 - 0.8

CONNECTING PINS		Testing Method ²	All Sizes
Bulk density	g/cm ³	Full Piece	1.72 - 1.84
Specific resistance	μOhm.m	Full Piece	3.4 - 4.5
Flexural strength	MPa	4 Points Bending	19.0 - 30.0
Coefficient of thermal expansion	mm/mm/°K 10 ⁻⁶	PATE ³ RT to 100°C	0.0 - 0.3

1: Displayed property values are typical ranges per GrafTech testing methods and constitute neither a guarantee or specification for individual electrode properties, nor any form of warranty, express or implied.

2: GrafTech testing methods have been specifically developed for graphite electrode characterization. Properties are measured in the axial direction.

3: PATE is a GrafTech invention for accurately measuring the coefficient of thermal expansion.



UCAR® Grade LFX™ Graphite Electrodes offer a total value solution for ladle furnace operations.

Premium quality ladle furnace electrode	✓
Designed and engineered especially for ladle furnaces	✓
Global network of manufacturing locations	✓
Long lengths up to 2700 mm (110")	✓
Backed with value-added technical services, including ArchiTech®	✓
Dependable delivery worldwide	✓

UCAR® Grade LFX™ is the Performance Solution

For more information, please visit www.graftech.com or contact one of our sites directly:

AFRICA

Alberton, South Africa
Sales & Service Office
 GrafTech South Africa (PTY) Ltd
 38 Rae Frankel Street
 Brackenhurst, Alberton, 1448
 SOUTH AFRICA
 Tel: 27.11.867.4228

ASIA

Hong Kong, China
Sales & Service Office
 GrafTech Hong Kong Limited
 Tien Chu Commercial Building 7/F
 173-174 Gloucester Road
 Wan Chai, Hong Kong CHINA
 Tel: 852.2739.2820

Chiba-shi, Japan
Sales & Service Office
 GrafTech Japan G.K.
 CD/3F Makuhari Techno Garden
 Nakase 1-3 Mihama-ku,
 Chiba-shi, Chibaken, 261-8501 JAPAN
 Tel: 81.43.296.8178

Seongnam, South Korea
Service Office
 GrafTech Korea Ltd.
 JK Corporation, #1010, Suntec City Building
 474 Dunchon Daero, Jungwon gu,
 Seongnam si, Gyeonggi do 13229 KOREA
 Tel: 82.010.5292.6576

EUROPE

Bussigny, Switzerland
Sales & Service Office
 GrafTech Switzerland S.A.
 Boulevard de l'Arc-en-Ciel 36
 1030 Bussigny SWITZERLAND
 Tel: 41.21.821.31.11

Calais, France
Manufacturing Facility, Sales & Service Office
 GrafTech France S.N.C.
 Rue des Garennes
 F62100 Calais, FRANCE
 Tel: 33.3.21.19.1420

Milano, Italy
Sales & Service Office
 GrafTech S.p.A.
 77 Via Monte Napoleone, 8
 20121 Milano MI, ITALY
 Tel: 33.3.21.19.1420

Pamplona, Spain
Manufacturing Facility, Sales & Service Office
 GrafTech Iberica S.L.
 Carretera de Astrain S/N
 E-31171 Ororbia
 Navarra, SPAIN
 Tel: 34.948.321.200

Ratingen, Germany
Sales & Service Office
 GrafTech Germany GmbH
 Kaiserswerther Str. 115
 40880 Ratingen, GERMANY
 Tel: 49.151.724.470.17

Sheffield, United Kingdom
Sales & Service Office
 GrafTech UK Limited
 Hart Shaw Building, Europa Link
 Sheffield, South Yorkshire S9 1XU ENGLAND
 Tel: 44.114.251.8850

MIDDLE EAST

Dubai, United Arab Emirates
Sales & Service Office
 GrafTech International FZE
 Office 1124 JAFZA ONE
 Tower A, 11th Floor
 Jebel Ali Free Zone, Dubai, UAE
 Tel: 971.48.170.570

NORTH AMERICA

Brooklyn Heights, Ohio
Corporate Headquarters
 GrafTech International Holdings Inc.
 982 Keynote Circle
 Brooklyn Heights, Ohio USA 44131
 Tel: 1.216.676.2000

Monterrey, Mexico
Manufacturing Facility, Sales & Service Office
 GrafTech Mexico S.A. de C.V.
 Carretera Miguel Alemán
 Km. 20 #600 Ote.
 Apodaca, Nuevo León MEXICO 66600
 Tel: 52.81.8.135.5600

St. Marys, Pennsylvania
Manufacturing Facility, Sales & Service Office
 GrafTech USA LLC
 800 Theresia St.
 St Marys, Pennsylvania USA 15857
 Tel: 1.814.834.2801

Port Lavaca, Texas
Manufacturing Facility
 Seadrift Coke L.P.
 8618 State Hwy. 185 North
 P.O. Box 192
 Port Lavaca, Texas USA 77979
 Tel: 1.361.552.8887

SOUTH AMERICA

Salvador, Brazil
Machine Shop, Sales & Service Office
 GrafTech Brasil Participações Ltda
 Rodovia BA-522 / Km-7
 Candeias, Bahia BRAZIL 43813-300
 Tel: 55.71.2108.9462