

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	✓

Contact Us

+1-216-676-2000 (Toll-Free USA) | +41-21-821-3111 (International) | www.graftech.com

AFRICA

Alberton, South Africa
Service Subsidiary
GrafTech South Africa (PTY) Ltd
38 Rae Frankel Street
Brackenhurst, Alberton, 1448
SOUTH AFRICA
Tel: +27-11-867-4228

ASIA

Hong Kong, China
Service Subsidiary
GrafTech Hong Kong Ltd
13/F, Gloucester Tower, The Landmark,
15 Queen's Road Central,
Central, Hong Kong CHINA
Tel: +86-139-1106-0499

Chiba-shi, Japan
Sales & Service Subsidiary
GrafTech Japan G.K.
CD/3F Makuhari Techno Garden,
1-3 Nakase, Mihama-ku, Chiba-shi,
Chiba, 261-8501 JAPAN
Tel: +81-43-296-8178

EUROPE

Bussigny, Switzerland
Global Sales & Production Planning Office
GrafTech Switzerland S.A.
Boulevard de l'Arc-en-Ciel 36
1030 Bussigny SWITZERLAND
Tel: +41-21-821-3111

Calais, France
Graphite Electrode Manufacturing Facility, Sales & Service Subsidiary
GrafTech France S.N.C.
Rue des Garenes
F62100 Calais, FRANCE
Tel: +33-3-21-19-1420

Milano, Italy
Sales & Service Subsidiary
GrafTech S.p.A.
77 Via Monte Napoleone, 8
20121 Milano MI, ITALY
Tel: +41-79-838-08-61

Pamplona, Spain
Graphite Electrode Manufacturing Facility, Sales & Service Subsidiary
GrafTech Iberica S.L.
Carretera de Astrain S/N
E-31171 Ororbia
Navarra, SPAIN
Tel: +34-948-321-200

Ratingen, Germany
Sales & Service Subsidiary
GrafTech Germany GmbH
Kaiserswerther Str. 115
40880 Ratingen, GERMANY
Tel: +49-151-724-470-17

Sheffield, United Kingdom
Sales & Service Subsidiary
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 Subsidiary
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
Graphite Electrode Manufacturing Facility, Sales & Service Subsidiary
GrafTech México 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⁽¹⁾
Graphite Electrode Manufacturing Facility, Sales & Service Subsidiary
GrafTech USA LLC
800 Theresia St.
St Marys, Pennsylvania USA 15857
Tel: +1-814-834-2801

Port Lavaca, Texas
Petroleum Needle Coke 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 Subsidiary
GrafTech Brasil Participações Ltda
Rodovia BA-522 / Km-7
Candeias, Bahia BRAZIL 43813-300
Tel: +55-71-2108-9462

(1) While maintaining the capability to produce graphite electrodes and pins, production activities at St. Marys were indefinitely suspended in 2024, with the exception of graphite electrode and pin machining.