

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:

ASIA PACIFIC

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

Beijing, China
Sales Office
GrafTech Hong Kong Limited
Beijing Representative Office
Jinglun Hotel, Room 4067
No.3 Jian Wai Da Jie
Beijing, 100020 CHINA
Tel: 86.10.65941860

Chiba-shi, Japan
Sales 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

AFRICA

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

EUROPE

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

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

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

RUSSIA-CIS

Moscow, Russia
Sales Office
GrafTech RUS LLC
35 Usacheva Str., 7th Floor
Moscow, 119048 RUSSIA
Tel: 7.495.937.9848.9849

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 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 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 Office
GrafTech Brasil Participações Ltda
Rodovia BA-522 / Km-7
Candeias, Bahia BRAZIL 43813-300
Tel: 55.71.2108.9462