



The Next Generation of Electrodes

UCAR®
GRAPHITE ELECTRODES

What if you could...

- Reduce Operating Costs
- Increase Productivity
- Maintain an Uninterrupted Production Flow



This next generation ALX™ Electrode enables you to benefit from:

- Reduced stub losses and breakages
- Lower consumption and lower electrode cost per ton
- Capacity for higher amps / power than pin-socket design
- Lower CO² emissions



GRAFTech
International

Redefining limits

United States and Canada

Toll-Free Number in
U.S.A. and Canada
Phone: 800.436.8227

European-Wide

Phone: +41 21 821 3336

www.graftech.com

Product Overview – Properties & Characteristics

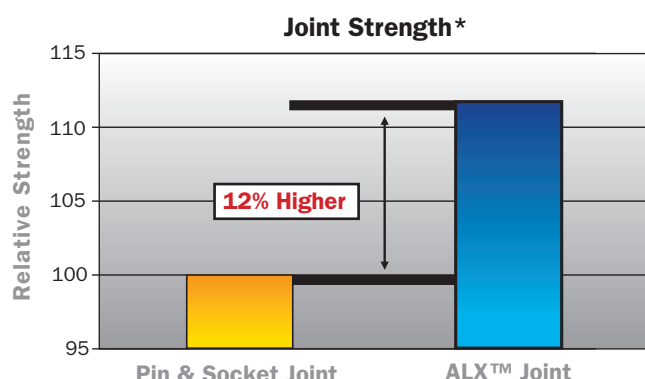
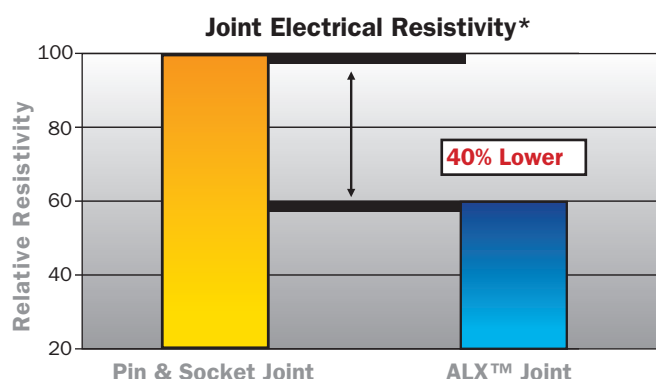
Demonstrated to reduce losses and increase productivity.

ALX™ ELECTRODE WITH AUTO-LOK® TECHNOLOGY

MATERIAL PROPERTY	600 - mm	700 - mm	750 - mm
Apparent Density (g/cc)	1.65 - 1.72	1.68 - 1.75	1.70 - 1.76
Specific Resistance ($\mu\Omega\text{m}$)	4.1 - 4.8	4.1 - 4.7	4.1 - 4.6
Flexural Strength* (MPa)	7 - 11	7 - 12	8 - 13
Coefficient of Thermal Expansion** ($\times 10^{-6}/^{\circ}\text{C}$)	0.1 - 0.5	0.1 - 0.5	0.2 - 0.6
* 4 point bending			
** 30 °C - 100 °C test range			

Displayed property values are typical ranges and not a guarantee or specification for individual electrode properties.

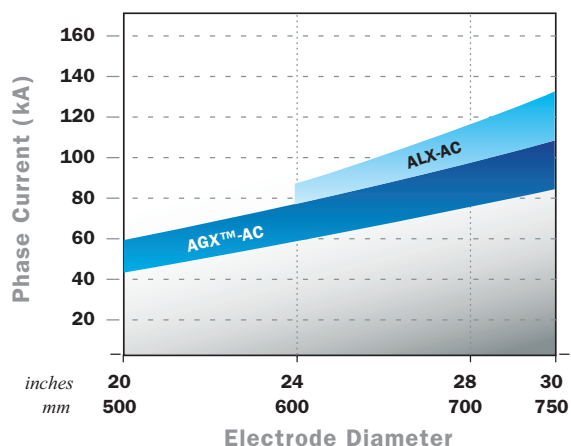
Auto-Lok® technology provides a disassembly/assembly ratio greater than 10.



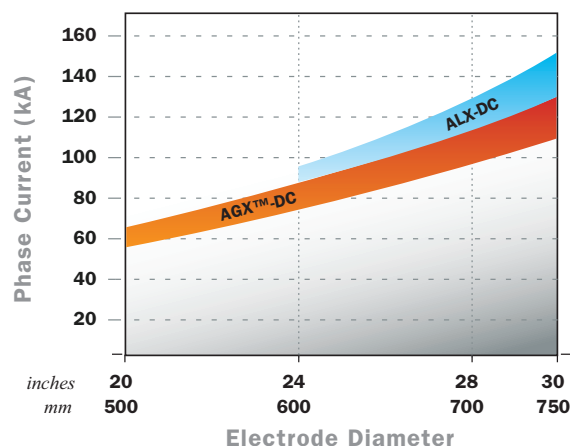
*For 600mm Electrodes

CURRENT CARRYING CAPACITIES

AC EAF Applications



DC EAF Applications



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