Arc Furnace Optimization

- Evaluate and trend electrode consumption by phase
- Maximize power input by determining effectiveness of power profile
- Determine electrical balance and solve arc flare problems
- Enhance foaming slag practice
- Trend more than 75 furnace parameters, including those affecting electrode consumption
- Power input optimization
- Primary and secondary metering, as well as phase sequence verification
- Regulator response and interaction analysis
- Calculate short circuit reactance, line reactance, and other key parameters
- Mobile Platform
- Surface hidden problems with statistical based alerts
- Benchmarking

The GrafTech Team

- Largest technical service team in our industry with a proven track record
- Multi-disciplined with wide-ranging skills
- Tailored service offerings from a comprehensive list of over 30 different services

For more information:
+1.800.436.8227 (Toll-Free in USA) | +41.21.821.31.11 (International) | www.graftech.com
**GrafTech Service Solutions**  
*Scope of Advantage Services is Wide*

**EAF Best Practices**
- Comparative analysis through benchmarking
- Advice and training on industry best practices
- Total energy audits

**Equipment Consultation**
- Our global presence gives us an independent overview of all EAF equipment and technology. We can help you in your new project planning.
- Equipment selection
- Productivity planning and capability
- Configuration and vetting

**New Arc Furnace Technology**
GrafTech experts can help in understanding implications of new developments.

**Optimizing Electrode Performance**
- Handling practices
- Jointing techniques
- Time utilization
- Oxygen and burners
- Foaming slag

**Training Programs**
- Electrode handling
- Modes of consumption
- EAF benchmarking
- EAF productivity
- Total energy utilization
- Ladle furnace operations

**Benchmarking Analysis**
- Electrical Energy versus Total Oxygen
- Average current (kA) vs. Electrode diameter (mm)

**Reduce Cost**
- Translate & simplify complex data into bottom line results

**Increase Productivity**
- Surface hidden problems and opportunities

**Maintain Uninterrupted Production Flow**
- Eliminate waste and streamline production flow

**Value Added Activities**
- Electrode Performance
- Energy Consumption
- Productivity
- LMF Optimization
- Charge Materials
- Training Seminars
- Refractory Life
- Equipment Consultancy
- Remachining Services & Grinding
- Foaming Flag & O2 Practice

**EAF Best Practices**
- Electrode handling
- Electrical priciples
- Chemistry energy
- EAF raw material
- EAF benchmarking
- Oxygen practices
- Inventory management
- Slag practices

**Technology Seminars**
- We offer customized seminars for customer groups focused on subject areas of interest.
- Equipment selection
- Productivity capability and planning
- Configuration and layout
- Start-up services
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