

# CAJ Specialty Electrodes

Technical Data Sheet 6050

## Product Overview

GRAFSTAR™ CAJ specialty electrodes are unique products comprised of a proprietary blend of particles and are offered in large diameter sizes. Advantages of CAJ specialty electrodes include improved purity, higher current carrying ability, improved burn off rate, reduced electrode breakage, improved thermal shock resistance, and reduced oxidation rate. CAJ specialty electrodes are typically joined together using a conical male/female joint design and can be used in all submerged arc applications.

## Typical Applications

Submerged arc furnace for:

- Thermal phosphorus production
- High purity silicon metal production
- Ferro alloys production

## Sizes\*

- 35" - 45" diameter rounds

## Typical Properties at Room Temperature\*\*

Characteristic	Unit	WG	Unit	WG
Density	lbs/ft <sup>3</sup>	102	g/cm <sup>3</sup>	1.64
Electrical Resistivity	μΩin	825	μΩm	21
Flexural Strength	psi	993	kPa	6850
Young's Modulus	10 <sup>6</sup> psi	0.87	GPa	6.0
Ash Content	%	0.96	%	0.96

Notes:

\* Other sizes available upon request

\*\* Properties listed are typical and cannot be used as accept/reject specifications. All properties are core samples.

www.graftech.com | grafstar@graftech.com

**Redefining limits**

**United States of America**

101 N. Phillippi Pike  
Anmoore, WV 26323-0120  
Ph: +1-800-842-8805  
+1-304-624-1253

**China**

Unit 2104 of International Capital Plaza  
1318, Sichuan Road North  
Hongkou District, Shanghai China  
Ph: +86-21-6325-8018

**Italy**

Via Forno Allione, 2  
1-25040 Malonno, Brescia, Italy  
Ph: +39-036-463-0131

**France**

La Lechere  
73264 Aigueblanche Cedex, France  
Ph: +33-4-79-41-45-00