

## UCAR<sup>®</sup> Refractory Systems

### C34<sup>™</sup> Cement

This product is a two part carbonaceous heat setting cement specifically for use as a mortar between carbon or graphite structural shapes. C34<sup>™</sup> Cement is used extensively in blast furnaces, cupolas, ferroalloy furnaces, phosphorus furnaces, runout troughs and other metallurgical applications. It thermally cures to form a strong carbonaceous bond between the cemented shapes. This extraordinary cement will cure at temperatures as low as 60°C, with maximum strength obtained with curing temperatures exceeding 100°C over 24 hours. Even more uniquely, specified flexural strength has proven to be obtained even with a delay of up to 12 weeks between mixing/application and curing.

C34 <sup>™</sup> KEY PROPERTIES	Typical Average
Thermal Conductivity (W/mK) (WG)	5
Bulk Density (g/cm <sup>3</sup> )	1.60
850°C Joint Strength (MPa)	10.3

### C46<sup>™</sup> Cement

This product is a single-component carbonaceous heat setting cement developed specifically as a mortar for use between carbon or graphite structural shapes. C46<sup>™</sup> is used extensively in blast furnaces, cupolas, ferroalloy furnaces, phosphorus furnaces, runout troughs and other metallurgical applications. It thermally cures to form a strong carbonaceous bond between the cemented shapes.

C46 <sup>™</sup> KEY PROPERTIES	Typical Average
Thermal Conductivity (W/mK) (WG)	2.5
Bulk Density (g/cm <sup>3</sup> )	1.40
850°C Joint Strength (MPa)	9.8

Properties listed are typical and cannot be used as accept/reject specifications.