



# Graphite / Carbon Product Lines

**Allied** offers a comprehensive catalog of carbon and graphite based cements, mortars, ramming materials and grouts. These dependable, industry-leading products are designed to fulfill ancillary needs in blast furnaces, cupolas and ferroalloy furnaces.

## We can fill the void.

Our product collection has expanded to include several staple products for the steel, ferroalloy and iron industries. These are the same refractory cements and pastes that you know and trust, now manufactured and sold under the Allied name.

Product	Information	Product	Information
C34	Two part carbonaceous heat setting cement developed specifically as a mortar for use between carbon or graphite structural shapes.	HC3F	One component, clean carbon mortar for bonding carbon and graphitic materials, especially block and brick in blast furnace hearths and ferroalloy furnaces. Product is air cured and has good thermal conductivity.
C38	Two part carbonaceous heat setting cement developed specifically as a bonding agent for use between large carbon or graphite refractory shapes.	HC4F	One component, water-based grout designed for cold grout applications, specifically filling the gaps between steel shell and carbon bricks in cupolas and blast furnaces.
C46	Single-component carbonaceous heat setting cement developed specifically as a mortar for use between carbon or graphite structural shapes.	HC5F	Glycol-based hot grout for filling in the gaps between steel shell and carbon bricks in blast furnace hearths and cupola furnaces.
CP9	Carbonaceous hot ramming paste.	HC6F	Two-component collector bar and cathode block bonding mix with visible metal beads.
EZRAM RP10	Highly thermally conductive graphitic ram, primarily used in sub-hearth, cooling pipe, and annulus between steel work and refractories.	HC8F	High conductivity, multi-purpose ramming mix used to repair carbon and graphite bricks in blast furnace hearths or as a patch for cracks in high carbon refractory linings.
SMART RAM® RP20	Ram with specially treated graphite flake, designed to provide excellent thermal conductivity, ease of installation and a unique expanding characteristic which can "self-correct" in case refractory movement or voids due to improper installation result in loss of cooling contact.		
GR37	Two-part carbonaceous grout with expanding flake graphite. It has been used to reestablish contact between carbon refractory and cooling members, as well as stop gas leaks in blast furnace applications.		
EZRAM RP3	Single component carbonaceous ram.		
EZRAM RP4	Single component, carbonaceous ram for filling in contained areas behind forms or between carbon structural shapes and furnace shells.		



Global Refractory Solutions