



## Technical Data Sheet

# Carbocond - S

### Product Description

**Carbocond - S** is based on a modified high purity crystalline natural graphitic material composite, blended to exhibit a highly conductive and stable matrix structure when incorporated into most host polymer materials.

**Carbocond - S** is manufactured in India by PranaGraf Materials and Technologies Pvt. Ltd, using raw material sourced from selected African mines. These deposits are historically known to possess a very good crystalline structure and the raw material is ideally suited for producing products with excellent conductive properties.

**Carbocond - S** possesses high conductivity properties coupled with a controlled particle size to give a product with many uses in the building products and engineering markets. It can be incorporated into many finished products to improve thermal and electrical conductivity, sound absorption, radar absorption and mechanical properties at both nano and micro levels, to give excellent results on a macro scale.

**Carbocond - S** is one of the signature additives from the PranaGraf Green Materials range and is designed to be compatible with most polymer systems including PU, PE, Epoxy, PVC and Acrylics in aqueous and non-aqueous formats. It is also highly suited for incorporation into cementitious systems, especially floor screed applications.

**Carbocond - S** is fully UK and EU REACH compliant, while possessing excellent environmental credentials being Chromium and halogen Free.

### Product Advantages

- Extremely stable product - excellent processing characteristics
- Excellent compatibility with a wide range of polymers
- High purity flake raw material blended composite
- High conductivity
- Consistent particle size
- Stable and neutral pH value
- Excellent compatibility with other material additives
- Halogen Free
- Chromium Free

## Product Properties

Appearance	Grey/Silver Powder						
Physical State	Solid						
Density	0.40 - 0.50 g/cc						
Purity	>97% Carbon						
pH Value	6.0 - 7.5						
Moisture Content	0.5% (max.)						
Addition Levels	3 - 45% w/w						
Typical Particle Size	<table><thead><tr><th>Microns</th><th>Wt%</th></tr></thead><tbody><tr><td>50</td><td>D90</td></tr><tr><td>5</td><td>D10</td></tr></tbody></table>	Microns	Wt%	50	D90	5	D10
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5	D10						

## Storage and Packaging

Store in cool and dry conditions away from local heat sources  
Available in 25kg woven bags and 1 Tonne bulk bags

## Further Information

We have further **Carbocond** grades available with different conductivities, particle size, etc. along with the availability to customise new products to suit a specific application. Please contact us to discuss your requirements and applications.

A material safety data sheet is available on request.

### **LEGAL NOTICE**

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