



Industrial Specialties

## **METHOCEL™ and CERA VANCE™**

Effective processing aids for Powder Metallurgical Tungsten Carbide Extrusion

- **Plasticity**
- **Lubrication**
- **Excellent extrusion performance**



# Renowned for its toughness, there's no wonder tungsten carbide is one of the world's most popular raw materials for manufacture of drills and drilling equipment.

Such drills are usually manufactured from rods extruded from a tungsten carbide paste – and adding METHOCEL™ or CERAVANCE™ extrusion aids from Dow bring significant processing improvements, including:

- High plasticity
- Excellent lubrication
- Low extrusion pressure required, even at low concentrations.

### Processing recommendations

- Begin with a dry blend of tungsten carbide, cobalt and a choice of either METHOCEL™ or CERAVANCE™ processing aid – along with other dry ingredients
- Add the required solvent



- Mix and knead until the tungsten carbide paste becomes homogeneous, plastic in nature and almost inflexible
- Press the paste through the appropriate die to form a shaped rod and dry
- Use appropriate drying equipment for green profiles.

### Product choice

A range of METHOCEL™ and CERAVANCE™ processing aids are on offer, allowing formulations to be tailored according to specific manufacturing requirements. Grades specifically created to support specific production needs may also be available; please contact us to discuss your technical challenges.

### Product recommendations

Water based formulation	Solvent based formulation
3-5% METHOCEL™ F4M	
3-5% METHOCEL™ 240	
2.5-4.5% METHOCEL™ 254	
2.5-4.5% CERAVANCE™ 6350	
2-4% CERAVANCE™ 6800	
	2.5-5% Methocel 311

% values relate to inorganic ingredients and do not include solvent.

### For more information contact us:

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