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## Carboxy Methyl Cellulose (High Viscosity Grade)

### Product Description

Carboxy Methyl Cellulose (CMC - HVG) is a cellulose derivative that is commonly used as a thickener, stabilizer, and viscosity modifier in various industries such as food, pharmaceuticals, and personal care products. The viscosity grade of CMC refers to its viscosity characteristics, and different grades may have different applications and performance properties.

### Applications/Functions

- **Viscosifier:** CMC is added to drilling fluids to increase viscosity. It helps in carrying drill cuttings to the surface and suspending solid particles, preventing them from settling.
- **Flotation Agent:** CMC is used in the mining industry as a flotation agent to separate valuable minerals from ore.
- **Water Thickening Agent:** CMC is employed to increase the viscosity of water used in enhanced oil recovery processes. This helps in displacing oil from reservoirs more effectively.
- **Suspension Agent:** CMC is used as a suspension agent for solid particles in oilfield additives. This is important in applications such as wellbore cleaning.

### Advantages

- **Water Solubility:** CMC is highly soluble in water, forming clear solutions. This property makes it easy to incorporate into formulations and allows for uniform dispersion.
- **Stability in a Wide pH Range:** CMC exhibits stability across a broad pH spectrum, making it suitable for use in both acidic and alkaline environments without losing its effectiveness.
- **Viscosity Control:** CMC is an effective viscosity modifier, helping control the viscosity of drilling fluids, fracturing fluids, and other formulations. This is crucial for optimizing fluid flow, carrying capacity, and overall process performance.

- **Enhanced Oil Recovery (EOR):** CMC is used to increase the viscosity of water used in enhanced oil recovery processes. The enhanced viscosity aids in displacing oil more effectively from reservoirs.

### **Typical Properties:**

- **Appearance:** White to off-white, odourless, and tasteless powder or granules.
- **Specific gravity:** 0.5 to 1.0 g/cm<sup>3</sup>
- **Hygroscopic:** YES
- **Recommended Treatment:** CMC should be stored in a cool, dry place, away from direct sunlight and moisture.
- **Package:** 25 KG SACK or customized

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