Basekim
Chemical Production Co.Ltd.

TECHNICAL DATA SHEET (TDS) — CMC (Low & High Viscosity Grades)

Product Name: CMC (Sodium Carboxymethyl Cellulose), Low Viscosity & High Viscosity Grades
Supplier: Basekim Chemical Production Co., UAE / Turkey

Product Description

CMC is a cellulose ether polymer used in drilling fluids to modify viscosity, improve suspension of solids, reduce fluid loss, and improve stability. The “low viscosity” grade dissolves rapidly and provides moderate thickening; “high viscosity” gives stronger gel structure and greater carrying capacity.

Typical Applications

- Drilling mud / drilling fluid for oil & gas, geothermal, water wells
- Fluid loss control additive
- Suspension of weighted solids (barite, etc.)
- Cementing aids, lost circulation materials (LCM)

Typical Physical & Performance Properties

Property	Low Viscosity Grade	High Viscosity Grade
Viscosity (1% w/v aqueous solution)	~100-500 cP (example)	~1,000-5,000+ cP (depending on grade and concentration)
Degree of Substitution / MW	Moderate	Higher MW / greater substitution
Solubility Time (in water, ambient)	Rapid (a few minutes)	Slower - may need shear mixing
Shear Stability	Good under moderate shear	Needs formulation care under high shear
pH of solution	~7–9	
Salt tolerance	Good up to certain salinities; depends on grade	
Thermal stability	Stable up to ~80-100 °C for many grades; higher if specially treated	

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Packaging & Supply

- Powder in sealed moisture-proof bags
- Bulk sacks, jumbo bags, or drums depending on volume
- Store in dry conditions to prevent moisture pickup

Storage & Handling Recommendations

- Keep material dry; moisture can degrade performance and cause clumping
- Store in sealed containers off the ground, in cool, well-ventilated areas
- Use clean mixing equipment; avoid contamination

Safety & Use Notes

- When mixing powder into water, add slowly with agitation to avoid clumps / lumps
- Use mixers or shear devices to dissolve high viscosity grades efficiently
- Monitor viscosity and fluid loss in the field to adjust dosage

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