



# CIVIL-GEL™

## Viscosifier

**Description** CIVIL-GEL™ bentonite viscosifier is a finely ground, universal grade bentonite that is manufactured to exceed the API (American Petroleum Institute) requirements. CIVIL-GEL bentonite viscosifier is designed for use in oil/gas well drilling, water well, HDD (Horizontal Directional Drilling), minerals exploration, civil engineering and construction applications including bored piles, slurry wall, microtunneling, pipe jacking, and geotechnical applications.

**Applications/Functions** *The use of CIVIL-GEL bentonite viscosifier assists and promotes the following applications and functions:*

- Viscosify water-based drilling fluids
- Form a thin tough filter cake
- Reduce filtration into permeable formations
- Provide suspension of drilled cuttings
- Promote borehole stability in poorly consolidated formations

- Advantages**
- Easy to mix
  - Rapid fluid viscosity development
  - Yields excellent fluid loss characteristics
  - Exhibits lubricity
  - Economical

- Typical Properties**
- Appearance Variable color (tan to pinkish)
  - Specific gravity 2.4 to 2.6
  - Bulk Density 800 to 1200 kg/m<sup>3</sup>

**Recommended Treatment**

Typical Fluid Properties of CIVIL-GEL Bentonite Viscosifier (6% by Weight)		API Specification 13A, Section 9	API Specification 13A, Section 11
600 rpm reading	≥ 35	30 min	30 min
API filtrate, ml/30 minutes	13 to 15	15 max	16 max
YP/PV ratio (API)	1.5 to 3.0	3 max	6 max
pH	9.0 to 10.0	N/A	N/A
Moisture, %	10 to 12	N/A	13

Mix slowly through a jet mixer or shift slowly into vortex of a high-speed stirrer at a rate of 35 to 60 kilograms (kg) per one cubic meter of freshwater.

**Packaging** CIVIL-GEL bentonite viscosifier is packaged in 25-kg multiwall paper bags and one metric ton jumbo bags.

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**Availability**

CIVIL-GEL bentonite viscosifier is produced in China and is intended for use only in the Asia-Pacific region. CIVIL-GEL bentonite viscosifier can be purchased through specific Baroid Industrial Drilling Products Retailers. To locate the Baroid IDP retailer nearest you contact the Customer Service Department in Houston or your area IDP Sales Representative.

**Baroid Industrial Drilling Products****Product Service Line, Halliburton**

3000 N. Sam Houston Pkwy E.

Houston, TX 77032

<b>Customer Service</b>	(800) 735-6075 Toll Free	(281) 871-4612
<b>Technical Service</b>	(877) 379-7412 Toll Free	(281) 871-4613

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