



BPD-APIGEL

DESCRIPTION

BPD-APIGEL is a sodium drilling bentonite of superior API grade quality designed for the preparation of drilling fluids that require increased yields and stronger gels. BPD-APIGEL is made from bentonite with the content of montmorillonite over 88%. BPD-APIGEL provides the preparation of the drilling fluids of outstanding rheological properties.

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BPD-APIGEL

superior API grade, high yield and strong gels drilling bentonite for freshwater based drilling systems

APPLICATION

BPD-APIGEL is a superior sodium API grade bentonite that will yield more than 155 barrels of 15cP (apparent viscosity) drilling fluid per ton (25 m³/ton). It is made of bentonite with the content of montmorillonite over 88% and it is recommended for the preparation of high quality water based drilling fluids when higher yields and stronger gels are required. It is suitable for blending with polymers and other drilling fluid additives.

BPD-APIGEL performs, at least, following actions:

- Cools and lubricates the drilling bit
- Reduces fluid loss into the formation
- Removes cuttings
- Keeps cuttings in suspension while drilling operation is stopped
- Stabilizes borehole and creates impermeable clay lining on borehole walls
- Provides the application of polymers and other mud additives
- Provides the information about the type of formation being drilled

QUALITY PARAMETERS

			LIMIT VALUE	TYPICAL VALUE	API
1	Viscosity 600 rpm FANN	mPas	≥ 45	45 - 55	≥ 30
2	Fluid loss	ml	≤ 14	13 - 14	≤ 15
3	YP/PV	-	≤ 3	2 - 3	≤ 3
4	Marsh viscosity	s	> 100	> 100	-
5	Residue on 75µm, wet sieve	%	≤ 2,5	1,0 - 2,5	≤ 4,0
6	Residue on 150µm, dry sieve	%	≤ 1	0,5 - 1,0	-
7	Swelling (2g/100ml)	ml	≥ 34	34 - 38	-
8	Moisture	%	≤ 13	9 - 13	≤ 13
9	Bulk density	t/m ³	-	0,82 - 0,89	-
10	Yield	bb/t	≥ 155	155 - 170	-
		m ³ /t	≥ 25	25 - 27	-

*Lab tests have been made in accordance with ISO13500/API Spec.13A/API RB 13B, if applicable.

RECOMMENDED USAGE

Add BPD-APIGEL slowly into prepared fresh water through jet/hopper mixer. Mixes quickly and easily. For best results, acidic and hard make-up water should be pretreated with soda ash to a pH of 8,0 - 9,0. Water quality affects BPD-APIGEL performance.

PACKAGING

- 25 kg (paper bag, arranged on plastic-wrapped pallet 1.000kg)
- 1 ton (big bag)
- In bulk

STORAGE AND SHELF LIFE

Store in closed original packing at ambient temperature and protect from humidity. Shelf life: 1 year.

QUALITY ASSURANCE

BENTOPRODUCT Ltd. operates according to Integrated Management System consisting of ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007. Certified by TÜV.