



BENTOPRODRILL-A

OCMA grade

DESCRIPTION

BENTOPRODRILL-A is a high quality sodium OCMA grade drilling bentonite which is specifically processed to develop exceptional rheological properties required for freshwater based drilling systems.

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BENTOPRODRILL-A

exceptional sodium OCMA grade drilling bentonite
for freshwater based drilling fluids

APPLICATION

BENTOPRODRILL-A is an exceptional sodium OCMA grade bentonite that will yield more than 115 barrels of 15cP (apparent viscosity) drilling fluid per ton (18 m³/ton). Drilling fluid prepared with BENTOPRODRILL-A has high viscosity and favorable fluid loss. It may be used for all types of freshwater mud systems. It may be well combined with polymers and other mud additives.

BENTOPRODRILL-A 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	OCMA
1	Viscosity 600 rpm FANN	mPas	≥ 32	32 - 37	≥ 30
2	Fluid loss	ml	≤ 15	14 - 15	≤ 16
3	YP/PV	-	≤ 6	4 - 6	≤ 6
4	Marsh viscosity	s	≥ 60	60 - 70	-
5	Residue on 75µm, wet sieve	%	≤ 2,3	1,5 - 2,3	≤ 2,5
6	Residue on 150µm, dry sieve	%	≤ 1	0,5 - 1,0	-
7	Swelling (2g/100ml)	ml	≥ 28	28 - 32	-
8	Moisture	%	≤ 13	9 - 13	≤ 13
9	Bulk density	t/m ³	-	0,82 - 0,87	-
10	Yield	bbt/t	≥ 115	115 - 125	-
		m ³ /t	≥ 18	18 - 20	-

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

TYPICAL DRILLING FLUID PARAMETERS PREPARED IN MEDIUM HARD FRESHWATER

BENTOPRODRILL-A dosage	kg/m ³	30	40	50	60
Apparent viscosity	mPas	7	10	14	18
Plastic viscosity	mPas	4	5	6	6
Marsh viscosity	s	32	35	41	55
Fluid loss (7,5min)	ml	14	12	11	8

RECOMMENDED USAGE

Add BENTOPRODRILL-A 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 8,5 - 9,5. Water quality affects BENTOPRODRILL-A performance.

SOIL TYPE	BPD-A dosage
High permeability soil: gravel, grit sand	60-70 kg/m ³
Noncohesive soil, medium permeability: sand formation	50-60 kg/m ³
Cohesive soil, medium permeability: muddy sand	40-50 kg/m ³
Cohesive soil, low permeability: limestone, clay	35-40 kg/m ³

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 ISO 45001:2018. Certified by TÜV.

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NOTE: The provided specifications and parameters are not binding for BENTOPRODUCT Ltd. and refer to the results obtained in laboratory conditions with the usual fault tolerance. These tests and obtained results serve primarily to examine the suitability of the product for the given areas of application. No guarantees of the specific characteristics can be derived from the given data and they do not relieve users from the obligation to conduct their own necessary tests. Bentoproduct Ltd does not accept any liability for damages resulting from the inadequate or incorrect application of the product.