



P-EBA (CEMENT - DIESEL OIL SLURRY)

CEMENTING SERVICE BULLETIN

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11/29/91

P-EBA (PETROCHEM-EXTENDER BENTONITE ADDITIVE)

TECHNICAL DATA

A blend of P-EBA and cement mixed with diesel oil. This slurry forms a very thick paste like material when contacted by water or water base drilling muds, making a very effective lost circulation material. Granular, flake or fibrous lost circulation additives may be used in conjunction with this slurry.

The addition of cement will allow the material to provide a low compressive strength squeeze material, which is not possible with BDO and Bengum.

PROPERTIES

Additive: P-EBA - Cement-Diesel Oil Slurry

SAFETY

Eyes: If eye contact occurs, wash eyes thoroughly with fresh water and apply neutral oil (castor or light mineral oil).

Skin: Material should have very little if any effect on skin.

Steps to be taken if materials are released or spilled:
Sweep into waste container and/or vacuum the residue.

Waste Disposal: : Bury in an approved sanitary landfill.

Effects of overexposure: No dangerous effect.

First-Aid Treatment: Wash affected areas thoroughly. Apply neutral oil to eyes after washing.

Weighing and Storage: Store in a dry place and avoid contamination with other chemicals.



NORMAL RANGE OF USE IN WELLS

Temperature: 60° to 250°F (15.6 to 121°C) (Static)

Concentration: Variable. General blend is 94 lbs cement and 100 lbs P-EBA. Higher compressive strengths are obtainable using 3 sacks cement to 1 sack P-EBA.

EFFECT ON CEMENT PROPERTIES

Not recommended for use in cement slurries.

BULK CEMENT INFORMATION STANDARD FORMULATION

1 sack cement - 94 lbs	42.6 Kilograms
1 sack P-EBA - 100 lbs	45.3 Kilograms
No. 1 Diesel Oil - 6.86 lbs/gal	0.82 kg/liter
or	or
No. 2 Diesel Oil - 7.09 lbs/gal	0.82 kg/liter

<u>lbs/gal</u>	<u>kg/liter</u>	<u>Gallons</u>	<u>Liters</u>	<u>Gallons</u>	<u>Liters</u>	<u>Barrel</u>	<u>m³</u>
10.0	1.20	35.9	135.9	44.03	166.7	1.05	0.167
10.5	1.26	29.8	112.8	37.93	143.6	0.91	0.145
11.0	1.32	25.3	95.8	33.43	126.5	0.79	0.126
11.5	1.38	21.7	82.1	29.83	112.9	0.71	0.113
12.0	1.44	18.7	71.0	26.83	101.6	0.64	0.102
12.5	1.50	16.4	62.0	24.53	92.9	0.58	0.092
13.0	1.56	14.4	54.5	22.51	85.2	0.54	0.086
13.5	1.62	12.7	48.0	20.82	78.8	0.49	0.078

3 SACKS CEMENT: 1 SACK P-EBA

12.5	1.50	33.8	127.9	49.08	185.8	1.17	0.186
13.0	1.56	29.6	112.0	44.8	169.9	1.07	0.170
13.5	1.62	26.4	100.0	41.70	157.8	0.99	0.157
14.0	1.68	23.4	88.6	38.76	146.7	0.92	0.146