



STUCKBREAKER-ES

ENVIRONMENTALLY SAFE PIPE FREEING COMPOUND

DESCRIPTION

STUCKBREAKER-ES is a concentrated oil soluble surfactant to be used in the preparation of an environmentally safe (ES), weightable spotting fluid for freeing differentially stuck pipe. This highly effective soak solution will significantly aid in freeing stuck pipe.

APPLICATION

STUCKBREAKER-ES, when mixed with the desired low toxicity oil-based carrier fluid and placed in the zone of the stuck pipe, penetrates the cake between the wall and the pipe, releases the differential pressure lock, and provides a lubrication medium that enables the pipe to be pulled free.

STUCKBREAKER-ES is an excellent choice for preparation of a pipe-freeing slug in environmentally sensitive areas. When compared to other products on the market, STUCKBREAKER-ES has an extremely low concentration of aromatic oils, and it contains no diesel oil. STUCKBREAKER-ES also has a flash point in excess of 200 °F., which makes it a safer product for handling by employees and equipment than diesel based products.

RECOMMENDED TREATMENT

The volume of the final mixture should be sufficient to cover the zone of stuck pipe. The slug should be spotted over the zone and attempts made to rotate and pull the pipe free.

The loading necessary to free stuck drill pipe may vary slightly with each situation. Tables for preparation of STUCKBREAKER-ES spacer and packer fluids are provided upon request.

PACKAGING

STUCKBREAKER-ES is packaged in export quality 55 U.S. gal steel drums containing approximately 450 lb (204 kg) of product.



MIXING TABLE

Density STUCKBREAKER-ES (ppg)	(55 gal drums)	Low Tox Oil (bbl)	Water (bbl)	Barite (100 lb bags)
7.3	6	65	28	----
8.0	6	65	28	15
9.0	6	61	27	85
10.0	6	58	26	140
11.0	6	56	24	195
12.0	6	54	22	250
13.0	6	51	21	300
14.0	6	49	21	350
15.0	6	50	15	410
16.0	6	51	11	465
17.0	6	47	10	515
18.0	6	44	10	570

MIXING INSTRUCTIONS

1. Add low tox oil to mixing tank.
2. Add STUCKBREAKER-ES concentrate while mixing.
3. Add water while mixing.
4. Mix at high shear as long as possible, to build strong emulsion.
5. Add barite slowly while mixing.

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