



Dow Oil & Gas

DEMTROL™ Compatibility with Oilfield Solvents

Determining the most effective solution to separate emulsions is one of the biggest challenges a service company faces. It is a critical step in the oil production process necessary in meeting production targets, adhering to commercial crude oil specifications and yielding cleaner produced water for discharge or reinjection. Dow's DEMTROL™ demulsifier products provide excellent performance in resolving a variety of crude oil emulsions and can be easily formulated with a variety of common oilfield solvents.

To demonstrate DEMTROL's versatility, a study was completed wherein each product was tested for their compatibility with a variety of oilfield solvents, at 50 wt% concentration. The blends were visually inspected after 24 hours then categorized into two groups based on their stability; stable (the product is compatible with the solvent) or unstable (the product is incompatible with the solvent).

The table on the next page illustrates the results as a reference.



	CARBITOL™	Aromatic 150	Methanol	Ethanol	Butyl CELLSOLVE™	Propylene Glycol	Ethylene Glycol	Stoddard Solvent	Butyl CARBITOL™	Methyl CARBITOL™	Xylene
1010	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
1015E	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
1020E	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
1030	Stable	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable
1040	Stable	Stable	Stable	Stable	Stable	Stable	Stable	Unstable	Stable	Stable	Stable
1110E	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
1113	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
1114L	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
1115	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
1120E	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
1130	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
1135E	Stable	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Stable	Stable	Stable
1150E	Stable	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Stable	Stable	Stable
1210E	Stable	Unstable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Unstable
1230E	Stable	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Stable	Stable	Stable
2020	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Unstable
2020E	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
2025E	Stable	Unstable	Stable	Stable	Stable	Stable	Unstable	Unstable	Stable	Stable	Unstable
2030	Stable	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Stable	Stable	Stable
3000	Stable	Unstable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Unstable
3005	Stable	Unstable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Unstable
3010	Stable	Unstable	Stable	Stable	Unstable	Unstable	Unstable	Unstable	Stable	Stable	Unstable
3020	Stable	Unstable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Unstable
3027	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
3030	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
4017	Stable	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Stable	Stable	Unstable
4026	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
4110	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
4115	Stable	Unstable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Unstable
4120	Stable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Stable
5030	Stable	Unstable	Stable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable
5050	Unstable	Unstable	Stable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Unstable	Stable
5130	Stable	Unstable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Unstable
5150	Stable	Unstable	Stable	Stable	Stable	Unstable	Unstable	Unstable	Stable	Stable	Unstable

■ Stable ■ Unstable

Note: DEMTROL concentration in solution at 50 wt%.

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