INNOVATIVE CHEMICALS

OIL TREATMENT

Demulsifier

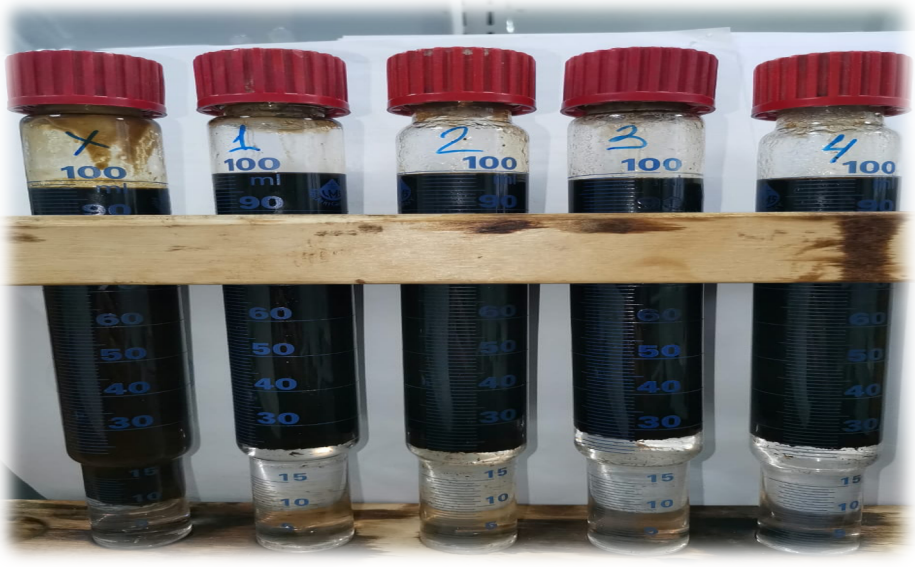
OVERVIEW

Demulsifier ICD-01 is a solution of non-ionic surfactants in methanol medium. It is specifically developed for quick and effective separation of water from water-in-oil emulsions. It is useful in applications with high paraffine content and in low temperature environment.

POTENTIAL APPLICATION

The produced oil mainly comes to the surface in the form of a water-in-oil emulsion. At the stage of oil treatment there is a need to separate water before oil reaches an export pipeline. However, in many cases, emulsion is very difficult to break due to a layer of high surface tension around molecule of formation water. Demulsifier ICD-01 is a synthetic surfactant with a higher surface activity compared to natural emulsifiers. They effectively destruct the armor layer surrounding the formation water drops and adsorb on the oil-water interface preventing development of emulsion again.

Property	Value
Appearance	Uniform amber liquid
Density at 20^0C, gr/cm^3	0.9 – 1.1
Viscosity at 20^0C, mm^2/sec	Not more than 20
Freeze point, ^{0}C	Neg 50
Solubility	Soluble in water
Active content, %	Not less than 45%



FEATURES AND BENEFITS

- High water discharge dynamics;
- Deep phase separation;
- Low residual water content;
- Low content of oil products in separated water;
- Clear interface between separated phases;
- Prevention of development of intermediate layers;
- High efficiency at low temperatures;
- Pressure reduction in oil gathering systems in conditions of low well production temperatures;
- Reducing the risk of disruption of oil and water treatment processes.

STORAGE AND PACKAGING

When stored in the original unopened containers, Demulsifier ICD 01 has a usable life of 12 months from the date of production. Demulsifer ICD 01 is available in 200-ltr drums and 1000-ltr cubes.

LIMITS

To create high-quality oil treatment, a dedicated product selection is required for any specific field condition. Optimal level is determined through a series of laboratory tests.