

PRODUCT TECHNICAL DATA SHEET

SIMPLY DRILL



Description

Simply Drill is a blend of high-purity organic polymers that are soluble in both fresh and salt water. It can be used in rotary drilling systems with either direct or reverse circulation, with or without a core barrel. The product can also be employed in air drilling operations, in combination with foaming agents, to increase efficiency and stabilize loose or incoherent soils. The polymer forms a highly viscous fluid that ensures excellent borehole stability while facilitating the removal and cleaning of cuttings.

Features

Biodegradable	Exceptional borehole stability in collapsing formations
Effective in all ground conditions	Formation clay inhibition
Higher viscosity for efficient borehole cleaning	Recyclable
Greater cuttings carrying capacity	Non-toxic and odorless

Chemical-Physical Properties

Specific Gravity	1.04 g/L
Appearance	Clear liquid
Marsh viscosity	> 40" (with 1.00 L/m ³ concentration)
Used water	45° French hardness
Molecular weight	High
Relative density	1.00 – 1.10
Average non-volatile solids (%)	34 – 41
Bulk viscosity (cP)	500 – 2000
Approximate viscosity @ 5 g/L (cP)	2400
Maximum concentration (g/L)	10
Solution stability (days)	8
Storage temperature (°C)	5 – 35°C
Product stability (when stored indoors at a temperature between 5°C and 30°C)	6 months

Dosage

In fresh water, a dosage of 1.00 L/m³ provides a minimum Marsh viscosity of 40".
In foam drilling, a dosage of 0.20 L/m³ is sufficient.
In seawater drilling, to achieve a Marsh viscosity of 40", the dosage should be increased to 3.6–4.0 L/m³.

Soil Type	Amount of SIMPLY DRILL (kg/m ³)
Clay	0.5
Silt	0.6
Silty Sand	0.7
Sand	0.8
Gravel	1
Coarse Gravel	1.2

Packaging

25 kg drums.