



## MACROSPEC HT

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### MULTI-PURPOSE MUD CONDITIONER

**MACROSPEC HT** has been developed in order to fulfill the requirements of drilling operations in areas where tough drilling conditions are encountered. It is a high performance multi-purpose mud conditioner, and has been designed to fill the need for a better high temperature mud thinner for deep well drilling.

Such a thinner must promote low solids by performing at low concentrations. It must also remain effective over wide ranges of temperatures and contamination.

**MACROSPEC HT** works at any alkaline pH condition, even close to neutral. It has its best performance on pH 9.5 to 11.0. It will perform well on shallow drilling where the operator intends to keep the same base mud throughout deeper drilling.

Because **MACROSPEC HT** is an oxygen scavenger, it reduces corrosion in drilling fluids. It is compatible with all other commonly used organic drilling. Generally, its performance at the field is even better than shown at the lab.

**MACROSPEC HT** is a combination of polymerized additives with selected organic dispersants, free of chrome or any other heavy metal components.

**MACROSPEC HT** is a reddish-brown spray dried powder, readily dispersible in water. It does not require the use of solubilizers. It is non-irritating for skin or lungs, and does not adversely affect marine life. The properties of the mud containing **MACROSPEC HT** get better when aged at elevated temperatures. It does not require a reserve amount before it begins to thin. In general, it requires less than one half of the amount of other additives commonly used for the same purpose. It gives improved viscosity control and very small concentrations are requested to deflocculate native mud.

The chemical structure of **MACROSPEC HT** prevents it from polymerizing as the temperature increases. Thus, it protects the clays from polymerizing at high temperatures.

It works both in salt and fresh water mud, and with sodium and calcium-base bentonites. It should be added preferably like a syrup, mixed with sodium hydroxide, in order to obtain its best effect and efficiency. The direct addition through the hopper, however, will provide the same benefits to the fluid.

Generally, 0.5 to 2.0 lb/bbl will give the mud good rheological properties. In case of severe contamination, concentrations should be increased to 4 lb/bbl, and pH should be kept around 10.5. It can be used from surface up to 20,000 feet in muds of all densities.

## TYPICAL ANALYSIS

Physical aspect	Dark brown powder, higroscopic
Moisture (%)	Maximum 8
Ionic Character	Anionic
Bulk Density (g/cm <sup>3</sup> )	0.6 – 0.7
pH (aq. sol. 1 % w/v)	4.5 - 6.5
Sugar Content (%)	Less than 6.0
Heavy Metals	Free
PCP	Free

## STORAGE

**MACROSPEC HT** powder maintains its characteristics unchanged if properly stored in dry premises, ventilated room, protected from sunlight and closed bags.

## PACKING

**MACROSPEC HT** is presented in a powder form and packed in a 25 kg bag net weight.

The suggestions and recommendations are based on our experiences but do not constitute a warranty from our part. Our clients shall conveniently adjust the recommended products to their working conditions as well as to the other products applied during the process. The above suggestions are given for information purposes.

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