

FYNOL-AC 28

OIL SOLUBLE WATER DISPERSIBLE CORROSION INHIBITOR

SPECIFICATIONS:

Color	:	Clear Amber
Acid Value	:	14 - 16
Amine Value	:	145 - 160
pH (2% Soln. in DW)	:	8.5 ± 0.5
Dispersibility in Water	:	Complete
0.4% Dispersion in Water of 80 pm Hardness Passes IP/125 Test	:	Rating 0/0 - 0

APPLICATIONS:

When incorporated in lubricating oils & greases at more than 2% v/v FYNOL AC-28 can offer higher anticorrosion properties. It can be also used in paints/coating to enhance anticorrosive properties.

FYNOL AC-28 is especially useful as an anti-corrosion additive for emulsifiable mineral oil based metal-working lubricants, including drilling, cutting and grinding fluids.

FYNOL AC-28 is applicable in the same manner as anti-corrosive additive in Textiles coning oils, finishes and preparations for synthetic fibers.

A minimum of 0.1% FYNOL AC-28 should be present in the final aqueous emulsion of any metal-working oil in order to obtain a satisfactory Herbert-corrosion-Test result.

FYNOL AC-28 is a good emulsion-stabilizer. Large quantities of other emulsifiers are therefore not required.

When used in water-free lubricants, 0.5% - 2% FYNOL AC-28 is normally sufficient.

In order to obtain the optimum anti-corrosion effect, the pH value of final formulation should preferably be more than 8.

FYNOL AC-28 can form stable emulsion with hard water upto 500 ppm calcium hardness & can be incorporated partly as a substitute for Sodium Petroleum Sulphonate.

By using FYNOL AC-28, it is possible to dilute drilling-oil emulsions with large quantities of water without encouraging the formation of rust.

The required amount of FYNOL AC-28 for synthetic drilling agents may be slightly higher and should be determined experimentally in each case.

PROPERTIES:

FYNOL AC-28 forms dispersion in water and is soluble in most of the mineral oils and hydrocarbons. FYNOL AC-28 is normally mixed and dissolved without difficulty. Should problems arise, a clear solution can readily be obtained by adding small quantities of a coupling agent such as unsaturated fatty acid, Sorbitan Mono Oleate, Glycols, Alcohols or even traces of water. FYNOL AC-28 is an excellent anticorrosive agent in the corrosion test according to DIN 51360 (Cast iron Shavings, Dilution in water of 15° general hardness) the following results are obtained:

Dilution	Evaluation
1 : 80	Max 2
1 : 60	Max 1

No rust at higher concentrations.

HANDLING SAFETY:

FYNOL AC-28 is an anticorrosive agent, mild and protective to the skin. The use of FYNOL AC-28 in metal working formulations provides skin protection for the vulnerable hands of the operators.

FYNOL AC-28 has the following properties :

- Increases lubricity
- Inhibits corrosion
- Stabilizes emulsions
- Biologically degradable
- Non-irritant to the skin
- Low toxicity

ENVIRONMENTAL ASPECTS:

FYNOL AC-28 contains no foreign substances such as sodium nitrate or similar salts. It need not be combined with nitrites. FYNOL AC-28 is biodegradable.

STANDARD PACKING : 50 Kg. Carboy.

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