

### 1. CHEMICAL DESCRIPTION

EMULAM RM77 is based on an anionic synthetic polymer in emulsion.

### 2. MAIN USE

EMULAM RM77 is a liquid polymeric viscosifier for invert emulsion muds that improves rheological and suspension properties.

### 3. TYPICAL VALUES

|                     |        |
|---------------------|--------|
| Appearance at 20°C: | liquid |
| Colour:             | milky  |
| pH (as is@ 25°C):   | 2-5    |
| Boiling point:      | 100    |

### 4. Application

EMULAM RM77 is a synthetic polymer in aqueous emulsion designed to quickly achieve the desired viscosity in oil-based drilling fluids (being the base oil a lot aromatic mineral oil, a synthetic or Diesel). EMULAM RM77 increases low-shear viscosity, gel strengths and thixotropic characteristics of the mud, for improved hole cleaning, cuttings carrying capacity and weighting material suspension. EMULAM RM77 can reduce the concentration of organophilic clays in the invert emulsion fluids, producing a shear thinning rheological profile.

EMULAM RM77 may be used alone or in combination with organoclays.

Treatments range normally from 0,5 to 5 lb/bbl depending on the oil/water ratio, the desired properties as well as other components of the drilling fluid.

Pilot testing is suggested to determine the actual treatment required to obtain the desired result.

### 5. STORAGE AND HANDLING

In order to maintain the performance of the product, store at room temperature and protect from frost.

### 6. PACKAGING

55 US gal non-returnable drums, palletized, strapped and stretch-hooded (4 drums per pallet).

This information and our technical recommendations, if any, both verbal and in writing, are given to the best of our knowledge, without any express or implied warranty e.g. regarding their fitness for the specific purpose. Each user of our products is the sole responsible for assessing and ensuring compliance with all legal regulations including intellectual property laws and necessary certifications and authorizations with respect to the use, combination and processing of our products. Our technical recommendations do not release the user from the obligation to check its validity and to test our products as to their suitability and fitness for the intended processes and uses. The application, use and processing of both our products and the products manufactured by the user (on the basis of or technical recommendations, if any) are beyond our control and, therefore, the user is the sole responsible for them. Detailed information and instructions on handling the products and cautions to be observed in the use of them are available in relevant Safety Data Sheet.

**Warranty** - This information is given in good faith and to the best of our knowledge. Every user of our products is responsible as regards observation of all legal regulations including patent laws. Detailed information on handling, and eventual precautions to be observed in the use of the product can be found on our relevant Health and Safety Information Sheet.