

Crude Oil Drag Reducing Agent (HH-33)

Product introduction

Crude Oil Drag Reducing Agent (HH-33) is developed by Jiangyin Huaheng Additives Co., Ltd. It is composed of poly-high-grade alpha olefins, mixed alcohols (composed of mono-alcohols and poly-alcohols in proportion) and a small amount of surfactants. It has little volatility and low toxicity at room temperature. The product is polymer powder dispersed in organic alcohols to form slurry product, which is convenient for product injection. When the product is injected into crude oil, the polymer powder can dissolve rapidly in crude oil, and the polymer stretches to form carbon chain comb polymer, which effectively changes the shape of the fluid, reduces the formation of turbulence, reduces the energy consumption in the process of fluid movement, and reduces the resistance of fluid movement in the pipeline. Drag reducer is a chemical additive widely used in crude oil pipeline transportation. It can reduce the flow resistance by inhibiting the turbulence of oil products in the flow, effectively improve pipeline transportation, reduce pipeline pressure, save energy and improve the safety factor of pipeline operation. We only need to connect the injection equipment to the pipeline. The installation time is not long, but the effect is quick. If the pipeline transportation no longer needs drag reducing agent, the equipment can be removed at any time, and the investment of fixed assets is very small. Therefore, the use of drag reducing agent can change pipeline from "rigid" to "elastic".

Main Physicochemical Properties of Products

Index	Description
Appearance and properties	Milky paste
Taste	The taste of alcohol
Relative density (25°C) g / ml	0.845-0.89
Freezing point (°C)	≤-45
Flash point (closure) (°C)	≥61
Solubility	Soluble in hydrocarbons, aromatic hydrocarbons, insoluble in water.
Others	See MSDS for details.

Cautions for Use and Storage of Products

Drag reducers are mainly used in crude oil pipelines to reduce the flow resistance of oil products in the pipeline during turbulence, thereby increasing the pipeline throughput or reducing the operating pressure of pipelines. The product is a slurry consisting of drag-reducing polymer, surfactant and dispersing medium. Because the density of product solution varies greatly with temperature, and the density of polymer powder varies little with temperature, the product will be layered for a long time and stirred evenly before use. Because the product is oil-soluble polymer dispersed in oil-soluble organic alcohols, under high temperature and direct sunlight, it is easy to occur the phenomenon that the polymer dissolves in solvents and becomes thicker, so it is necessary to prevent the sun exposure and environmental temperature from being lower than 45°C in storage. The products should be far away from open fire and strong oxidant. The environmental hazards and preventive measures of the products are detailed in MSDS. Because the product is a polymer of ultra-high molecular weight, the high-speed shear of the oil pump will affect the performance of the product. The product should be injected after the oil pump. Different pipelines require different degree of pressure reduction and increase of transporting capacity. The dosage of the product is adjusted according to the field test results. The dosage concentration of the product is generally in the range of 5-30 ppm. The product has a shelf life of 12 months.