



POLYALPHAOLEFIN POWDER

PAO^{DECAT}

GENERAL INFORMATION

Polyalphaolefin is the sole active ingredient for Drag Reducing Agent or DRA as usually referred to (Finished DRA Product in the form of slurry).

This product can be described as an ultra-high molecular weight polyalphaolefin in the form of fine powder. The product can be directly used to make finished DRA products in the form of slurry without further cryo-grinding required.

The polyalphaolefin supplied by **LONRON PETRO-TECH** is **DECAT^{PT}** treated*, and thus boasts sustained drag reduction performance.

***DECAT^{PT}** is a proprietary technology developed by **LONRON PETRO-TECH** to treat or stabilize polyalphaolefin upon the completion of polymerization. Polyalphaolefin after treated or stabilized by **DECAT^{PT}** will not further decompose or degrade with time and thus will maintain its molecular structure intact as designed. As a result, the **DECAT^{PT}** treated polyalphaolefin will keep its drag reduction performance constant for a long term. In another word, the drag reduction performance of the **DECAT^{PT}** treated polyalphaolefin will not decrease with time while the drag reduction performance of non **DECAT^{PT}** treated polyalphaolefin will usually decrease with time. The **DECAT^{PT}** treated polyalphaolefin is referred to as **PAO^{DECAT}**, boasting stable drag reduction performance.

PHYSICAL PROPERTIES

Form	Fine Powder
Color	White
Odor	Odorless
Density	0.830 g/cm ³
Bulk Density	0.32 – 0.41 g/cm ³
Melting Point	>200°C
Molecular Weight	>7M Dalton
Purity	90% (polyalphaolefin)
Solubility	Immiscible in water. Miscible in most organic solvents
Form	Fine Powder
Color	Colorless or Yellowish
Odor	Odorless

The manufacturing process and quality control as well as provided quality control documents are strictly complied with ISO-9001 Quality Control Standard.

APPLICATION

Polyalphaolefin is in the form of fine powder and thus can be directly used to make the finished DRA products in the form of slurry. Therefore, no further processing such as cryo-grinding is required. The slurry making process can be performed either by users' own formula or under the instruction of the manufacturer.

PACKING

The standard packing for polyalphaolefin is a compression resistant cardboard drum (25kg or 50kg). Supply in other packing can be offered upon request.

STORAGE AND HANDLING

Polyalphaolefin will be stable and keep its potency for at least two years if stored in sealed, cool and dry condition. Do not expose polyalphaolefin to ultraviolet radiation to which the material is highly susceptible.

When handling polyalphaolefin, dust protective mask or respirator, protective gloves and protective work clothing should be worn. Ventilation will be installed if necessary.

Additional information concerning first-aid, firefighting measures, transport information and regulations is specified in the Material Safety Data Sheet, which is available upon request.

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