



## POLYALPHAOLEFIN

### PAO<sup>DECAT</sup>

#### GENERAL INFORMATION

Polyalphaolefin is one of the raw materials and 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.

The polyalphaolefin supplied by **LONRON PETRO-TECH** is **DECAT<sup>PT</sup>** treated\*, and thus boasts sustained drag reduction performance.

\***DECAT<sup>PT</sup>** 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<sup>PT</sup>** will not further decompose or degrade with time and thus will maintain its molecular structure intact as designed. As a result, the **DECAT<sup>PT</sup>** treated polyalphaolefin will keep its drag reduction performance constant for a long term. In another word, the drag reduction performance of the **DECAT<sup>PT</sup>** treated polyalphaolefin will not decrease with time while the drag reduction performance of non **DECAT<sup>PT</sup>** treated polyalphaolefin will usually decrease with time. The **DECAT<sup>PT</sup>** treated polyalphaolefin is referred to as **PAO<sup>DECAT</sup>**, boasting stable drag reduction performance.

#### PHYSICAL PROPERTIES

<b>Form</b>	Solid Granule (MAX Size 20X20mm)
<b>Color</b>	Colorless or Yellowish
<b>Odor</b>	Odorless
<b>Density</b>	0.830 g/cm <sup>3</sup>
<b>Melting Point</b>	>200°C
<b>Molecular Weight</b>	>7M Dalton
<b>Conversion</b>	>90%
<b>Ingredient</b>	Polyalphaolefin (95~97%)
<b>Solubility</b>	Immiscible in water. Miscible in most organic solvents

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 subject to further processing such as cryo-grinding and slurry making to yield finished DRA product. The subsequent processing 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, protective gloves and protective work clothing should be worn though the material is much less harmful or irritable than the other chemicals.

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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