

# Armohib PC-105

## Esterified Copolymer

Copolymer inhibitor & crystal modifier for use in paraffin control

### Specifications

Appearance	Amber solid at 25°C
Moisture	≤ 0.50 %
NVR	73.0-78.0 %

### Characteristics

Appearance	Solid, Light tan to amber at 25°C
Density	7.76 Lbs/Gal at 25°C
Flash point	71 C
Odor	Slight solvent
Pour point	37.8 °C
Viscosity	356 cSt (Kinematic) at 40°C
Water content	≤ 0.5 %
Solubility: 10% in Isopropyl Alcohol	Insoluble
Solubility: 10% in Kerosene	Soluble
Solubility: 10% in Water	Insoluble
Solubility: 10% in Xylene	Soluble
Solubility: 50% in Aromatic 150	Soluble
Solubility: 50% in Isopropyl Alcohol	Insoluble
Solubility: 50% in Kerosene	Soluble
Solubility: 50% in Water	Insoluble
Solubility: 50% in Xylene	Soluble

#### Notes:

Typical Data are based on our own measurements or derived from the literature. They do not constitute part of the delivery specification.

## Applications

Armohib® PC-105 is a crystal modifier, specially designed to combine with the paraffin seed crystals as they first begin to form and precipitate out of the crude oil mixture. Once the inhibitor has bonded with the minute seed crystal, the shape is distorted, making it unrecognizable to other seed crystals. The seed crystals, unable to combine are maintained in solution. The result is a clean and efficiently operating system, free from the troublesome, production restricting effects of paraffin depositions.

## Additional information

Armohib® PC-105 is one of Nouryon's high performance line of paraffin control chemicals. Armohib® PC-105 is a thick liquid high molecular weight copolymer designed to function as a paraffin crystal modifier. Armohib® PC-105 was developed for application in the production and transportation of waxy crude oils. In the production process, Armohib® PC-105 may be applied downhole, where it will inhibit paraffin precipitation, reducing or eliminating paraffin deposits. As a result, fewer decreases in production will occur and resistance to flow will drop. The pour point of low gravity or high paraffin content viscous crudes may be reduced by application of this product. Applied at the wellhead, PC-105 will inhibit flowline deposition with corresponding decreases in line and pump pressures. Armohib® PC-105 may be applied at other points in the surface handling system to prevent paraffin accumulations and reduce upsets. In crude oil transportation, Armohib® PC-105 will lower the pour point and inhibit paraffin deposition. Lower line pressures will result, pumping becomes more energy efficient and line pigging requirements are reduced. Armohib® PC-105 may be utilized in hot oil applications to prevent paraffin redeposition. This product is also suitable for use in slop oil and tank bottom treatments. Since Armohib® PC-105 is an inhibitor, application should be upstream of the point at which the paraffin first starts to precipitate. It may also be added to paraffinic crudes and tank bottom deposits to inhibit precipitation once they have been heated.

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

Armohib® is a registered trademark in many countries. For more information, please visit our website at [www.nouryon.com](http://www.nouryon.com).

The logo for Nouryon, featuring a stylized blue 'N' followed by the word 'ouryon' in a blue sans-serif font.