

Armohib® PC-105 Esterified Copolymer

Specifications

	Min	Max
Appearance (@ 25C)		Amber solid
Moisture (%)	- -	0.50
NVR (%)	73.0	78.0

Solvent	I	P	D	S	C	G	E
10% in Water	X						
50% in Water	X						
50% in Xylene					X		
						X	
50% in Aromatic 150						X	
10% in Kerosene						X	
50% in Kerosene						X	
10% in Xylene						X	
50% in Xylene						X	
							X
10% in Isopropyl Alcohol	X						
50% in Isopropyl Alcohol	X						

I - Insoluble, **P** - Partially Dispersible,
D - Dispersible, **S** - Slightly Soluble,
C - Soluble, **G** - Gel,
E - Emulsion

Typical Properties

Odor	Slight solvent odor
Appearance (@25 C)	Solid, Light tan to amber
Water Content (%)	.5 max
Pour Point (C)	37.8
Density (@77 F) (Lbs/Gal)	7.76
Flash Point (C)	71.1

Advantages

Armohib PC-105 is one of Akzo Nobel'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.

How it Works

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.

The specifications & properties listed above are for products manufactured in the United States.

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