

# **NEODENE™6 XHP**

## **TECHNICAL DATASHEET**

Higher Olefins

Updated: October 2019 SICC Product Code: V1262

### **Description:**

• NEODENE 6-XHP Linear Alpha Olefin is a high purity 1-hexene made by the Shell Higher Olefins Process (SHOP) by the oligomerisation of ethylene. It can be used in a variety of applications but it is primarily used as a comonomer in polymerisation process to make High Density and Linear Low Density Polyethylene where the very high purity is especially beneficial.

Typical Chemical Properties <sup>a</sup>	Property	Unit	Value	Method
	C4 and lower	%m/m	< 0.1	SMS2895
	C6	%m/m	> 99.9	SMS2895
	C8 and higher	%m/m	< 0.1	SMS2895
	1-Hexene	%m/m	> 99.0	SMS2895
	Total n-Alpha Olefins	%m/m	> 99.0	SMS2895
	Total Branched Olefins	%m/m	< 1.0	SMS2895
	Total Internal Olefins	%m/m	< 0.5	SMS2895
	Total Paraffins	%m/m	< 0.05	SMS2895
	Appearance		CSFVI <sup>b</sup>	Visual
	Color, Pt-Co	Pt-Co	5	ASTM D1209
	Carbonyl as C=O	mg/kg	< 1	SMS2894
	Carbonyl as acetone	mg/kg	< 2	SMS2894
	Peroxides as O	mg/kg	< 0.5	SMS359
	Water	mg/kg	< 25	ASTM E1064

a: An official sales specification is available from your local Shell Chemicals representative.

b: Clear & Substantially free of visual impurities

Typical Physical Properties	Property	Unit	Value
	Density @ 20°C	kg/L	0.677
	Boiling Point Range	°C	61 <i>- 7</i> 8
	Flash Point	°C	- 29
	Freezing Point	°C	< - 78
	Kinematic Viscosity @ 20°C	mm²/s	0.4

# Storage and Handling

NEODENE 6-XHP is normally supplied under nitrogen and no antioxidant is added unless requested. Advice on the storage and handling of NEODENE can be found in the Safety Data Sheet on our website at <a href="https://www.shell.com/chemicals/msds">www.shell.com/chemicals/msds</a> or by contacting your local Shell Chemicals Representative.

#### Hazard Identification

Alpha Olefins are potentially hazardous material; everyone concerned with handling it must be conversant with the nature of the hazards and trained in the recommended handling procedures for both normal and emergency situations. Before handling the product, refer to the Safety Data Sheet.

## Emergency Helpline

For emergency telephone numbers refer to the Safety Data Sheet relevant for your company's country and language.

#### Shell Warranties

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