



NEODENE[®] 8

Higher Olefins

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SICC Product Code: V1168

Description:

NEODENE[®] 8 Linear Alpha Olefin is high purity 1-octene made by the Shell Higher Olefin 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 processes to make Linear Low Density Polyethylene.

Property	Unit	Value	Method
C6 and lower	%m/m	< 0.5	SMS2895
C8	%m/m	> 99.0	SMS2895
C10 and higher	%m/m	< 0.5	SMS2895
Total n-Alpha Olefins	%m/m	> 96.0	SMS2895
Total Branched Olefins	%m/m	< 2.0	SMS2895
Total Internal Olefins	%m/m	< 2.5	SMS2895
Total Paraffins	%m/m	< 0.1	SMS2904
Appearance		CSFVI ^b	Visual
Color, Pt-Co		< 5	ASTM D1209
Carbonyl as C=O	mg/kg	< 10	SMS2894
Peroxides as O	mg/kg	< 3	SMS359
Water	mg/kg	< 65	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	0.719
	Boiling Point Range	°C	121 – 129
	Flashpoint	°C	13
	Freezing point	°C	< -78
	Kinematic viscosity @ 20 °C	mm ² /s	0.7

Storage and Handling

NEODENE® Alpha Olefin can be supplied with or without antioxidant as requested. Advice on the storage and handling of NEODENE® and SHOP Linear Alpha Olefins can be found in the Safety Data Sheet on our website at www.shell.com/business-customers/chemicals/safe-product-handling-and-transportation/safety-data-sheets or by contacting your local Shell Chemicals Representative.

Hazard Identification

1-Octene is a 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 that is available on our website at www.shell.com/business-customers/chemicals/safe-product-handling-and-transportation/safety-data-sheets or by contacting your local Shell Chemicals Representative.

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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