



NEODENE™ 14/16

TECHNICAL DATASHEET

Higher Olefins

Updated: April 2019

SICC Product Code: V1161

Description:

- NEODENE 14/16 Linear Alpha Olefin is a 2:1 blend of a high purity 1-tetradecene and 1-hexadecene made by the Shell Higher Process (SHOP) by the oligomerization of ethylene.

Typical Chemical Properties ^a	Property	Unit	Value	Method
	C12 and lower	%m/m	< 2	SMS2895
	C14	%m/m	60 - 70	SMS2895
	C16	%m/m	30 - 40	SMS2895
	C18 and higher	%m/m	< 2	SMS2895
	Total n-Alpha Olefins	%m/m	> 94	SMS2895
	Total Branched Olefins	%m/m	< 4.5	SMS2895
	Total Internal Olefins	%m/m	< 2.5	SMS2895
	Paraffin	%m/m	< 0.2	SMS2895
	Appearance		CSFV ^b	Visual
	Color, Pt-Co		< 5	ASTM D1209
	Water	mg/kg	< 100	ASTM E1064
	Carbonyl as C=O	mg/kg	< 15	SMS2894
	Peroxides as O	mg/kg	< 3	SMS359

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	0.778
	Boiling Point Range	°C	238 - 289
	Flash Point	°C	110
	Freezing Point	°C	- 9
	Kinematic Viscosity @ 20°C	mm ² /s	3

Storage and Handling

NEODENE Alpha Olefins 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/chemicals/msds 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.

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