



Shell Chemicals

Shell NEODENE® 1112 IO

TECHNICAL DATASHEET

SICC Product Code: V1147

CAS Registry Number: 68991-52-6

Description

Shell NEODENE® 1112 Internal Olefin contains C11 and C12 olefin isomers produced by the Shell Higher Olefins Process (SHOP) by the oligomerization of ethylene.

Typical Chemical Properties – Shell NEODENE® 1112 IO

Property	Unit	Value	Method ^a
C10 and lower	%m/m	< 1.5	SMS 2976
C11	%m/m	35 – 56	SMS 2976
C12	%m/m	43 - 64	SMS 2976
C13 and higher	%m/m	< 2.0	SMS 2976
Appearance	-	CSFVI ^b	Visual
Color, Pt-Co	-	< 10	ASTM D1209
Water	mg/kg	< 100	ASTM E1064

Notes:

a: SMS -Shell Method Series

b: Clear & Substantially free of visual impurities

Typical Physical Properties – Shell NEODENE® 1112 IO

Property	Unit	Value	Method
Density @ 20°C	kg/m ³	755	ASTM D4052
Boiling Point Range	°C	193 - 215	-
Flash Point	°C	74	ASTM D7236
Melting / Freezing Point	°C	-36	-
Kinematic Viscosity @ 20°C	mm ² /s	1.6	ASTM D445



Test Methods

Copies of copyrighted test methods can be obtained from the issuing organizations:

- American Society for Testing and Materials (ASTM)

Shell Method Series (SMS) methods are issued by Shell Global Solutions International B.V., Shell Technology Centre, Amsterdam, The Netherlands. Requests for copies of SMS can be made through your local Shell Chemicals company.

N.B: For routine quality control local test methods may be applied. Such methods have been validated against those mentioned in this datasheet.

Hazard Information

Internal Olefins are potentially hazardous; 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.

Access Safety Data Sheets here: [Safety Data Sheets](#)

Storage and Handling

Shell NEODENE® Internal Olefins can be supplied with or without antioxidant as requested. Advice on the storage and handling of NEODENE® can be found on our web site at www.shell.com or by contacting your local Shell Chemicals representative.

Shell Warranties

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