

## Keroflux<sup>®</sup> 6160

### Cold flow improver and pour point depressant for middle distillates

September 2022 | Data Sheet Refinery Additives | Replaced version of October 2021

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® = registered trademark of BASF in many countries.

**Chemical composition** Dispersion of low molecular weight olefin in organic solvents.

#### Properties

**Appearance** White to pale yellow, turbid liquid

#### Physical data

Density at 15 °C	860 – 950 kg/m <sup>3</sup>	DIN EN ISO 12185
Viscosity at 50 °C	130 – 230 mm <sup>2</sup> /s	ASTM D7042
Pour point	~ 18 °C	DIN ISO 3016
Flash point	≥ 61 °C	DIN EN ISO 2719

#### Quality control

The above-listed data represent average values at the time of going to press of this Technical Information. They are intended as a guide to facilitate handling and cannot be regarded as specified data. Specified product data are issued as a separate product specification.

#### Solubility

Keroflux 6160 is soluble in aliphatic and aromatic solvents in all proportions, but insoluble in water and polar organic liquids.

#### Application

Keroflux<sup>®</sup> 6160 considerably improves the flow properties of middle distillates at low temperatures. Keroflux<sup>®</sup> 6160 acts as a crystallization modifier for higher n-paraffins. It prevents the formation of a coherent network for paraffin wax crystals with the result that the cold filter plugging point (CFPP) and the pour point (PP) of the middle distillates are considerably reduced.

Keroflux<sup>®</sup> 6160 is added to the middle distillates at addition rates of 50 – 1000 ppm. The actual injection rate depends on the composition of the middle distillate, which is characterized by the cloud point, the boiling range, the type and the amount of paraffins, and other parameters.

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<b>Application</b>	<p>Keroflux® 6160 is injected directly into the stream of a middle distillate either undiluted or in the form of a stock solution. For the injection of the flow improver a temperature of 40 – 50 °C is most favorable.</p> <p>A mixing section of adequate length in the pipeline is required. Lines through which undiluted Keroflux® 6160 is pumped should be heated to 30 – 50 °C, and the temperature of the middle distillate to be doped should be about 30 – 35 °C.</p> <p>Suitable solvents for preparing Keroflux® 6160 dilutions are middle distillates, kerosene and aromatic hydrocarbons (“solvent naphtha”).</p>
<b>Compatibility</b>	<p>Keroflux® 6160 and its dilutions are miscible with other Keroflux grades in all proportions.</p>
<b>Storage and Handling</b>	<p>Keroflux® 6160 can be stored up to two years. The storage temperature should not exceed 55 °C. Short-term exposure to temperatures up to 80 °C will not affect the performance of the product.</p>
<b>Packaging</b>	<p>bulk</p>
<b>Safety</b>	<p>When using this product, the information and advice given in our <b>Safety Data Sheet</b> should be observed. Due attention should also be given to the <b>precautions</b> necessary for handling chemicals.</p>
<b>Note</b>	<p>The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.</p> <p>September 2022</p>