

# Kerofluid<sup>®</sup> MIL AL-41

Anti-icing additive for aviation fuels, according to US military MIL-DTL-83133, MIL-DTL-85470, UK Defence Standard 91-91, Defence Standard 68252/2, DERD 2451, NATO S-1745, JSD AI41 and ASTM D4171-22.

June 2023 | Data Sheet Jet Fuel Additives | Replaced version October 2017

TI/EVO 1001e / Page 1 of 2

® = registered trademark of BASF SE.

**Chemical composition** Diethylene glycol mono methyl ether.

### Properties

#### Appearance

Clear colourless liquid.

### Physical data

Relative density 20°C/20 °C	1.021 – 1.025	ASTM D 891
Distillation		ASTM D 1078
Initial boiling point	min. 191.0 °C	
Dry point	max. 198.0 °C	
Acid number	max. 0.09 mg KOH/g	ASTM D 1613
Colour Co/Pt	max 10	ASTM D 1209
Water content	max 0.10 %	ASTM D 1364
Ethylene glycol content	max 0.05 %	
pH (25 % solution in water)	5.5 – 7.0	
Flash point	min. 85 °C	ASTM D 93

### 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.

### Application

Kerofluid<sup>®</sup> MIL AL-41 does comply with the following standards and certifications:

US military MIL-DTL-83133, MIL-DTL-85470, UK Defence Standard 91-91, Defence Standard 68252/2, DERD 2451, NATO S-1745, JSD AI41 and ASTM D4171-22.

Application and treat rate of fuel system ice inhibitor (FSII) should be strictly in accordance with recommendations from the equipment OEM as well as the latest edition of applicable defence or national standards.

EI 1538 provides additional industry recommended practices for the handling, storage, delivery and injection of FSII into aviation fuel at commercial airports.

**Storage stability**

Kerofluid® MIL AL-41 can be stored in iron tanks covered by a nitrogen blanket to avoid moisture contacts.

The storage time should not exceed 6 months at a temperature above 30 °C.

Maximum shelf life of 24 months if stored in sealed containers in a controlled environment below 30 °C.

Kerofluid® MIL AL-41 can also be stored in HDPE containers in a controlled environment below 25 °C with a shelf life of 24 month

**Safety**

When using this product, the information and advice given in our **Safety Data Sheet** should be observed. Due attention should also be given to the **precautions** necessary for handling chemicals.

**Note**

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.

June 2023