

Furnaceflame

Description:

Middle distillate fuel for heating applications.

Date of issue:

May 2023

Property	Units	Limits		Test Method	Typicals
		Min.	Max.		
Appearance ^{a)}	Visual	Clear & bright		D 4176	Clear & bright
Kinematic viscosity at 40°C	mm ² /s	1.70	6.00	IP 71	3.00
Density at 15 °C	kg/m ³	820.0	-	IP 365	832.0
Carbon residue (micro)	% (m/m)	-	0.30	ASTM D 4530	<0.01
Flash point	°C	45	-	IP 34	55
Water content ^{a)}	% (m/m)	-	0.020	IP 438	<0.02
Particulate content	mg/kg	-	24	IP 415	<5
Ash content	% (m/m)	-	0.01	IP 4	<0.001
Silicon content	% (m/m)	-	0.0001	IP 336	<0.0001
Sulfur content	% (m/m)	-	0.10	IP 336	0.03
Copper corrosion (3h at 50°C)	class	-	1	BS EN ISO 2160	1a
Cold filter plugging point (CFPP) ^{a)}	°C			IP 309	
Summer (16 March to 15 November)		-	-4		<-12
Winter (16 November to 15 March)		-	-12		<-12
Strong acid number	mg KOH/g	-	Zero	IP 139	Zero
Lubricity, corrected mean wear scar diameter (wsd 1.4) at 60°C ^{b)}	µm	-	460	BS 2000-450	340
Oxidation Stability at 110°C	m	60	-	EN16091	70

Furnaceflame heating gas oil can only be used in heating applications, it is not to be used as a fuel for any engine, motor or other machinery.

^{a)} If sample is not clear & bright, then water content limit shall apply.

^{b)} Winter grade all year round.

Please note: This document is accurate at the date of issue and supersedes all previous issues. This specification is not a guarantee.

<i>Additional Data</i>	
Gross specific Energy (calorific value)	MJ/kg of Oil – 45.2 MJ/Litre of Oil – 37.4
Net specific Energy (calorific value)	MJ/kg of Oil – 42.6 MJ/Litre of Oil – 35.2
Equivalent to MJ / kg of CO ₂ produced	14.4 MJ / kg CO ₂

*****Furnaceflame is unaffected by the 01/04/22 changes to Red Diesel and Biodiesel taxation, & can be used for all heating uses.*****

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