

## PRODUCT SPECIFICATION

### MGO (E10) – BIOFUEL LIGHT 20

#### AREA OF USE:

The product is a marine gasoil with 20-23% renewable content intended for use in diesel engines in commercial ships. The renewable content consists of a bio-oil light end fraction (no fame). This product reduces Co2 emissions by up to 20% WtW compared to regular MGO.

#### STORAGE:

The product is suitable to storage temperatures above 0°C and not longer than 3 months.

PROPERTIES	UNIT	PRODUCT SPECIFICATION	TYPICAL ANALYSIS DATA
Density at 15 °C	kg/m <sup>3</sup>	Max 860	840
Viscosity at 40 °C	mm <sup>2</sup> /s (cSt)	2,0-4,0	2,8
Cloud point	°C	0	-11
Flash point	°C	Min 60,0	70,5
Filterability cold conditions (CFPP)	°C	-10	-25
Cetane index		Min 45	53,8
Distillation temp. max at 10% distillate	°C	-	215
Distillation temp. max at 90% distillate	°C	-	336
Sulphur content	Mass -%	Max 0,1%	<0,030
Net heat of combustion	MJ/kg	-	42,5
Gross heat of combustion	MJ/kg	-	45,5
Ash content	Mass -%	Max 0,010	<0,001
Hydrogen sulphide	Mg/kg	Max 2,00	<0,4
Acid number	Mg KOH/g	Max 0,5	0,16
Carbon residue micro (10% bttms)	Mass -%	Max 0,3	<0,1
Pour point	°C	0/-6	-24
Appearance	Visual	Clear & bright	Clear & bright
Lubricity	µm	Max 520	380
Oxidation stability	g/m <sup>3</sup>	Max 25	2
Water content	Vol-%	-	0,06

It is classified as a flammable liquid, class 3.