

LIGHT FUEL OIL³ (Calor Economical 3)

**USE: TO PRODUCE THERMAL ENERGY FOR DOMESTIC AND INDUSTRIAL USE,
AS BLENDING COMPONENT FOR MARINE FUEL**

PROPERTY	MU	LIMITS		TEST METHOD
		Min.	Max.	
Density at 20 °C	kg/m ³	-	935	ASTM D 4052-96 (02) ² / ASTM D 1298-99(05) ² SR EN ISO 12185:02 ² / SR EN ISO 3675:02 ² SR EN ISO 3675:02/AC91-05
Flash point, PM	°C	55	-	SR EN ISO 2719:03 / ASTM D 93-07
Sulfur	% (m/m)	-	1	ASTM D 4294-03 / SR EN ISO 8754:04/ ASTM D 2622-07 ²
Viscosity at 50°C	°E	-	3	STAS 117-87
Water	% (v/m)	-	0,5	ASTM D 95-05 / ISO 3733:99
Water and sediment	% (v/v)	-	1,5	STAS 24/1-89 / ASTM D 1796-04
Ash	% (m/m)	-	0,15	SR EN ISO 6245:03 ² / ASTM D 482-03 ²
Carbon residue	% (m/m)	-	3	SR EN ISO 10370:02 ² / ASTM D 4530-06 ²
Freezing point	°C			STAS 39-80
- Summer ¹		-	+5	
- Winter ¹		-	-8	
Mineral acidity and alkalinity		nil		STAS 22-64 / ASTM D 1093-07
Low caloric value	KJ/kg	40350	-	ASTM D 4868-00(05) ²
	Kcal/kg	9650	-	
Distillation: - until 250°C, distil % (v/v)	% (v/v)	10	-	ASTM D 86-07a ² / SR EN ISO 3405-03 ²

NOTES: 1) Summer - from April, 1 to Septembrie, 30; Winter - from October, 1 to March, 31 **2)** Accredited test by RENAR **3)** Product trade name is Calor Economical 3.

Quality control: control is done on lot.

Each batch will have max. 9000 tone for delivery in tank wagons or tank capacity for pipelines. The lot will have product of same type.

During testing, the product must comply with all parameters depicted in standard specification for corresponding product/type. If not, the batch is rejected.

In case of litigious, the quality control will be done using the samples kept for these cases, sampling being done in accordance with the sampling procedure.

NOTE: A sample is analyzed in the supplier laboratory, and the second is kept for three months after delivery, at buyer's disposal, for an eventual control.

Sampling procedure: according to SR EN ISO 3170:2004 / SR EN ISO 3170:2004 /C91:05/ASTM D 4057-06

Informations about handling, transportation and storage: according to "Material Safety Data Sheet" FDS-2.9 T.

Quality-environment-safety integrated Management System is certified by Germanischer Lloyd Certification according to the following standards:

- ISO 9001:2008
- ISO 14001:2004
- BS OHSAS 18001:2007

The test lab is accredited by RENAR, in compliance with SR EN ISO/CEI 17025:2005.

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