

AUTOMOTIVE LPG^{4,5,7}

USE: FUEL FOR USE IN LPG VEHICLES DESIGNED TO RUN ON AUTOMOTIVE LPG

PROPERTY	MU	LIMITS		TEST METHOD
		Min.	Max.	
Antiknock value: MON		89	-	SR EN 589:08 ³ (Append. B)
Total dienes content (inclusive 1,3 butadiene)	% mol	-	0.5	SR EN 27941:00 ³
Hydrogen sulphide		negative		SR EN ISO 8819:02 / ASTM D 2420-07
Sulphur total (after stenching) ¹	mg/kg	-	50	ASTM D 6667:04
Cooper strip corrosion (1 h at 40°C)	rating	class 1		ASTM D 1838-07 ³ / SR EN ISO 6251:02 ³
Evaporation residue	mg/kg	-	60	SR EN ISO 13757:01 ³ / SR EN 15471:08
Vapour pressure ⁶ gauge at 40°C	kPa	-	1550	ASTM D 1267-07 ³ / SR EN ISO 4256: 02 ³ SR EN ISO 8973:02 ³ (pct.6.3) SR EN 589: 08 (Append. C)
Vapour pressure gauge, min 150 kPa °C at a temperature of ² :				
-for type A		-	-10	SR EN ISO 8973:02 ³ (pct.6.3) / SR EN 589:08 (Append. C)
-for type C		-	0	
for type D		-	+10	
Water		Pass		EN ISO 13758:96 ³ / ASTM D 2713: 07 ³ SR EN ISO 13758:03 ³ / SR EN 15469:08
Odour		Unpleasant and distinctive at 20% LII		SR EN 589:08 ³ (pct.6.3 and Append. A)

NOTES: 1) A sufficient amount of ethylmercaptan is added to the product in order to provide a specific odour, permitting the detection of the possible leaks. **2)** Winter: from October, 1 to April, 30; Summer: from May, 1 to September, 30 - no minimum vapour pressure limit is specified. **3)** Accredited test by RENAR **4)** The manufacturer warrants that product is unadditivated with methanol or other anti freeze agents. **5)** Certified product by RAR. **6)** It must be observed that minimum limits of vapour pressure at 40°C to be according to: for type A - 950kPa; for type C - 700 kPa; for type D - 500 kPa. **7)** Name at the distribution pump: AUTOMOTIVE LPG

Quality control: control is done on lot.

Each batch will have maximum one wagon for delivery in tank wagons or max. 5000 LPG bottles for delivery in LPG bottles. 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. Sampling is done in accordance with the sampling procedure.

Sampling procedure: according to ASTM D 1265-05 / SR EN ISO 4257:02 / SR EN ISO 4257:02 /AC:07

Informations about handling, transportation and storage: according to "Safety Data Sheet" FDS-1.4 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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