



ARCOLA PETROLIFERA S.P.A VIA XXV APRILE 18 19021 ARCOLA (SP) 0187952711

## DIESEL

### Requirement And Test Methods

ARCOLA  
PETROLIFERA  
Italian Standard

Release : Genn.'09

Code: D1

Property	Units	Limits		Test method <sup>a</sup>
		Min	Max	
Cetane number		51,0		EN ISO 5165
Cetane index		46,0		EN ISO 4264
Density at 15 deg C <sup>b</sup>	Kg/m3	820	845	EN ISO 3675 EN ISO 12185
Density at 15 deg C (in air)	Kg/m3	To be reported		Calculated
Polycyclic aromatic hydrocarbons <sup>c</sup>	%(m/m)		11	EN 12916
Sulphur content <sup>b</sup>	mg/Kg		10	EN ISO 20846 EN ISO20847 EN ISO 20884
Flash point	deg C	above 55		EN 22719
Carbon residue (on 10% distillation residue) <sup>d</sup>	%(m/m)		0,15	EN ISO 10370
Ash content	%(m/m)		0,01	EN ISO 6245
Water content	mg/Kg		200	ISO 12937
Total contamination	mg/Kg		15	EN 12662
Copper strip corrosion (3h at 50 deg C)	rating	class 1		EN ISO 2160
Oxidation stability	g/m3		20	EN ISO 12205
Lubricity, correct. wear scar diam. (wsd 1.4) at 60 deg C	micron		460	ISO 12156-1
Viscosity at 40 deg C	mm2/s	2,00	4,50	EN ISO 3104
Distillation <sup>e f</sup>				EN ISO 3405
recovered at 250 deg C	%(V/V)		< 65	
recovered at 350 deg C	%(V/V)	85		
95% (V/V) recovered at	deg C		360	
Fatty acid methyl ester (FAME) content <sup>i</sup>	%(V/V)		5	EN 14078

recovered at 150 deg C <sup>g</sup>	%(V/V)		2	EN ISO 3405
Neutralizing number	mgKOH/g		0,3	ISO 6618
Colour <sup>h</sup>			2	ISO 2049
Conductivity	pS/m	50		ASTM D 2624

Property	Units	Limits				Test method <sup>a</sup>
		Winter		Summer		
		Min	Max	Min	Max	
CFPP:						EN 116
Grade 1	deg C		-12		-2	
Grade 2	deg C		-10			
Cloud Point:					To be reported	EN 23015
Grade 1	deg C		0			
Grade 2	deg C		2			

Summer : March 16 th - November 14 th  
Winter : November 15 th - March 15 th

Data ultima modifica  
19-gen-09



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**COMMENT: DIESEL Italian standard**

- a.** Requirements and test methods are established in accordance with the European Standard. All test methods include a precision statement. In cases of dispute, the procedures described in EN ISO 4259 for resolving the dispute, and interpretation of the results based on the test method precision shall be used.  
*All test methods are referred to the latest edition of the publication*
- b.** In cases of dispute concerning density:  
EN ISO 3675 shall be used.  
In cases of dispute concerning sulphur content:  
EN ISO 20847 shall be used.
- c.** Polycyclic aromatic hydrocarbons are defined as the total aromatic hydrocarbon content less the mono aromatic hydrocarbon content.
- d.** The limiting value for the carbon residue given in table above is based on product prior to addition of ignition improver, if used. If a value exceeding the limit is obtained on finished fuel in the market, EN ISO 13759 shall be used as an indicator of the presence of a nitrate containing compound. If an ignition improver is thus proved present, the limit value for the carbon residue of the product under test cannot be applied. The use of additives does not exempt the manufacturer from meeting the requirement of maximum 0.3% (m/m) of carbon residue prior to addition of additives.
- e.** For the calculation of the cetane index the 10%, 50% and 90% (V/V) recovery points are also needed.
- f.** The limits for distillation at 250 deg C and 350 deg C are included for diesel fuel in line with EU Common Customs tariff.
- g.** "Recovered at 150 deg C" is not necessary when the flash point measured is < 65degC.
- h.** A correct amount of dyes and denaturing agents shall be added for agriculture and fishing purposes.  
All the suppliers of these substances shall be approved from Agenzia delle Dogane.
- i.** Fame shall meet the requirements of EN 14214