

| CHARACTERISTICS  | UNITS              | LIMITS (1)                                | TEST METHODS (2)             |  |                    |
|--|--------------------|---|------------------------------|--|--------------------|
|  |                    |   | EN STANDARDS (3)             | UNE STANDARDS (3)                      | ASTM STANDARDS (3) |
| Cetane numer (4)   |                    | minimum 49,0                              | EN ISO 5165<br>EN 15195      | UNE -EN ISO 5165<br>UNE -EN 15195      | D 613              |
| Cetane Index (4)   |                    | minimum 46,0                              | EN ISO 4264                  | UNE -EN ISO 4264                       | D 4737             |
| Density at 15°C  | kg/m <sup>3</sup>  | 820 a 880                                 | EN ISO 3675<br>EN ISO 12185  | UNE -EN ISO 3675<br>UNE -EN ISO 12185  | D 4052<br>D 1298   |
| Sulphur content  | mg/kg              | maximum 10 (5)                            | EN ISO 20846<br>EN ISO 20884 | UNE -EN ISO 20846<br>UNE -EN ISO 20884 |                    |
| Distillation (6):<br>65 % V/V collected<br>85 % V/V collected<br>95 % V/V collected                              | °C<br>°C<br>°C     | minimum 250<br>maximum 350<br>maximum 370 | EN ISO 3405                  | UNE -EN ISO 3405                       | D 86               |
| Kinematic viscosity at 40°C  | mm <sup>2</sup> /s | 2,0 a 4,5                                 | EN ISO 3104                  | UNE -EN ISO 3104                       | D 445              |
| Flash point  | °C                 | minimum 60                                | EN ISO 2719                  | UNE -EN ISO 2719                       | D 93               |
| Cold filter plugging point (POFF):<br>Winter (1 October to 31 March) (7)<br>Summer (1 Abril to 30 September) (7) | °C<br>°C           | maximum -10<br>maximum 0                  | EN 116                       | UNE -EN 116                            |                    |
| Cloud point:<br>Winter (1 October to 31 March) (7)<br>Summer (1 Abril to 30 September) (7)                       | °C<br>°C           | maximum 0<br>maximum +6                   | EN 23015                     | UNE -EN 23015                          | D 2500<br>D 5772   |
| Carbon residue (on 10% distillation residue)   | % m/m              | maximum 0,30                              | EN ISO 10370                 | UNE -EN ISO 10370                      | D 4530             |
| Lubricity, corrected wear scar diameter (corrected WSD 1.4) at 60°C  | µm                 | maximum 460                               | EN ISO 12156 -1              | UNE -EN ISO 12156 -1                   |                    |
| Water content  | mg/kg              | maximum 200                               | EN ISO 12937                 | UNE -EN ISO 12937                      |                    |
| Total contamination (Solid particles)  | mg/kg              | maximum 24                                | EN 12662                     | UNE -EN 12662                          |                    |
| Ash content  | % m/m              | maximum 0,01                              | EN ISO 6245                  | UNE -EN ISO 6245                       | D 482              |
| Corrosion to copper (3h at 50°C)   | scale ASTM         | maximum 1b                                | EN ISO 2160                  | UNE -EN ISO 2160                       | D 130              |
| Oxidation stability  | g/m <sup>3</sup>   | maximum 25                                | EN ISO 12205                 | UNE -EN ISO 12205                      | D 2274             |
| Transparency and gloss   |                    | complies                                  |                              |  | D 4176             |
| FAME content   | % V/V              | (8)                                       | EN 14078                     | UNE -EN 14078                          |                    |
| Colour   |                    | (9)                                       | Visual                       |  |                    |

EDITION: 6

DATE: 16/11 /2021

SEE NOTES IN THE NEXT PAGE

NOTES:

- (1) All test methods referred to in this document include a precision statement. In case of dispute, the procedure for resolving the dispute and interpretation of the results based on test method precision, described in EN ISO 4259, shall be used.
- (2) Other technically equivalent test methods are acceptable under prior approval by CLH. In case of dispute, the criteria about reference methods and the interpretation of results established in RD 1088/2010 shall be followed.
- (3) The test methods to be applied are those corresponding to the latest published version.
- (4) If the cetane index is lower than 49, diesel oil must contain duly approved ignition enhancers in a proportion that is sufficient for achieving a minimum cetane number of 49.
- (5) The sulphur limit of 10 mg/kg applies in the CLH system inlet; en according to RD 1088/2010 maximum sulphur content for delivered Diesel Oil B is 20 mg/kg.
- (6) Besides the specified values, the values of 10%, 50% and 90% collected, which are necessary for calculation of the cetane index, must be reported on.
- (7) The dates indicated are the dates established officially for diesel oil to be available at the retail points with the quality of the new season. The advance period within which diesel oil must enter the CLH system for achieving this objective is defined in the service provision contract.
- (8) The blending of FAME shall not be allowed. The maximum FAME content present by contamination during the production process must be less than 0.1 % V/V.
- (9) This fuel does not incorporate tracers or colourants. It shall be clear, clean, transparent and glossy and shall have a maximum (ASTM D 1500/ASTM D 6045) colour of 2. In the CLH system, the colorants and tracers shall be incorporated as established by Order PRE/1724/2002, of 5 July, which approves the tracers and markers that shall be added to some hydrocarbons in order to apply reduced rates established by Law 38/1992, of 28 December, of Special Taxes, modified by Order PRE/3293/2004, of 22 October.

IF THERE IS A CHANGE IN THE OFFICIAL SPECIFICATIONS IN FORCE IN SPAIN, THIS TABLE WILL  
BE REVISED TO SUIT THE NEW SITUATION.