

WK7852 New Standard Specification for Diesel Fuel Oil, Biodiesel Blend (B20)¹

Developed by Subcommittee: [D02.E0](#)

See [Related Work](#) by this Subcommittee

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1. Scope

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1.1 This specification covers three grades of a fuel blend of 20 volume percent (%) biodiesel and 80 volume percent (%) of a middle distillate diesel fuel oil, collectively designated as B20. These grades are suitable for various types of diesel engines, and comply with the requirements of Executive Order 13149 - Greening the Government Through Federal Fleet and Transportation Efficiency.

1.1.1 The biodiesel component of the blend shall conform to the requirements of ASTM D 6751 prior to blending. The remainder of the fuel shall be a middle distillate grade diesel fuel conforming to ASTM D 975. The middle distillate grade diesel fuel whose sulfur level, aromatic level, cetane or lubricity falls outside of ASTM D 975 may be blended with biodiesel meeting ASTM D 6751, provided the finished mixtures meets this standard specification or other pertinent national and local specifications and requirements for these properties.

1.1.2 The fuel sulfur grades are described as follows:

1.1.2.1 Grade B20 (S15) ù A fuel with a maximum of 15 ppm sulfur.

1.1.2.2 Grade B20 (S500) ù A fuel with a maximum of 500 ppm sulfur.

1.1.2.3 Grade B20 (S5000) ù A fuel with a maximum of 5000 ppm sulfur.

1.2 This specification, unless otherwise provided by agreement between the purchaser and the supplier, prescribes the required properties of diesel fuels at the time and place of delivery.

1.2.1 Nothing in this specification shall preclude observance of federal, state, or local regulations which may be more restrictive.

NOTE 1 ù The generation and dissipation of static electricity can create problems in the handling of distillate diesel fuel oils. For more information on the subject, see Guide D 4865, (Guide for Generation and Dissipation of Electricity in Petroleum Systems).

1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.