



Global Factory-fill Fuel Diesel

1 Scope

1.1 Material Description. This specification describes a diesel factory-fill fuel for assembly plants. Factory-fill fuel is intended for use in vehicles which are stored for extended periods of time at various locations in the market or in storage tanks where the rate of turnover is low.

1.1.1 This diesel fuel shall be clean, bright and free from contamination with pour and cloud points adequate for production processing and engine operation.

1.1.2 The fuel may also contain additives such as: cetane improver, metal deactivator, antioxidant, corrosion inhibitor, detergent, lubricity improver, biocide, antistatic additive, pour depressant, flow improver, dye, dispersant, deicer, and additives to reduce particulate emissions. Specific type and quantity of these or other types of additives shall be agreed upon by purchaser and seller.

1.2 Symbols. Not applicable.

1.3 Applicability. This standard defines fuel that could be used as factory-fill fuel. The fuel refers to the preferred standards for factory fill, 9985074 or GMW18186. This standard does not replace the requirement of fuels as defined in standards 9985074 or GMW18186 and is to be used only as a temporary solution in case of unavailability of approved factory fill diesels either as per 9985074 or GMW18186 standards.

- **Caution:** This fuel may not be appropriate for winter use in regions with arctic or severe winter conditions. Use of this fuel in winter months in such regions may necessitate use of various strategies to winterize this fuel such as use of cold flow additives, blending with arctic grade diesel as per standards 9985074 or blending with local winterized market place fuel which requires diesel fuel with low temperature properties that vary according to regional requirements depending on season.

1.4 Remarks. Nothing in this standard supercedes applicable laws and regulations unless specified exemption has been obtained.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

ASTM D613	ASTM D6371	EN 14078	GB 19147
ASTM D975	ASTM D7371	EN 15195	
ASTM D2500	EN 116	EN 23015	
ASTM D6079	EN 590	EN ISO 5165	

2.2 GM Standards/Specifications.

9985074	GMW3059	GMW18186
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2.3 Additional References.

- BIOBOR JF available at <https://www.biobor.com/products/biobor-jf-diesel/>

3 Requirements

3.1 Diesel fuel per latest version of ASTM D975, EN 590 and/or GB 19147 with the following deviations all-year-round:

- Cetane Number per ASTM D613 or EN 15195 or EN ISO 5165: 45, minimum.

- Cold Filter Plugging Point (CFPP) per ASTM D6371 or EN 116: -40 °C, maximum Cloud point per ASTM D2500 or EN 23015: -40 °C, maximum.
- Biodiesel, Fatty Acid Methyl Ester (FAME), content per ASTM D7371 or EN 14078 volume: 0.5%, maximum.
- Lubricity, High Frequency Reciprocating Rig (HFRR) at 60 °C: 460 µm maximum per ASTM D6079.

3.2 All tests shall be performed according to the latest date of issue. Where two methods are listed, either may be used. In case of dispute, the method listed first shall be the referee method.

3.3 To prevent fungal growth in in-plant storage tanks, the diesel fuel may contain 100 ppm of BIOBOR JF or an equally effective concentration of an equivalent fuel fungicide.

3.4 Contamination. The diesel fuel shall be clear and bright, visually free of undissolved water and suspended matter, and contain no more than 1.0 mg of sediment per liter. Sediment is determined by vacuum filtering a 3 L sample of diesel through a 1.2 µm membrane filter. After drying the filter in a vacuum desiccator for 10 minutes, the increase in the mass of the filter is determined.

3.5 All materials supplied to this standard must comply with GMW3059, **Restricted and Reportable Substances**, including the requirement to obtain a GM-approved International Material Data System (IMDS) submission.

4 Manufacturing Process

Not applicable.

5 Rules and Regulations

5.1 Legal Regulations. All materials must satisfy applicable laws, rules, regulations and recommendations valid in the country of usage.

5.2 Language. In the event of conflict between the English and domestic language, the English language shall take precedence.

5.3 Inspection and Rejection. All shipments of material or parts under contract or purchase order manufactured to this specification shall be equivalent in every respect to the initial samples approved by Engineering. There shall be no changes in either formulation or manufacturing processes permitted without prior notification and approval by Engineering. Lack of notification by the supplier constitutes grounds for rejection of any shipment. While samples may be taken from incoming shipments and checked for conformance to this specification, the supplier shall accept the responsibility for incoming shipments meeting this specification without dependence upon purchaser's inspection.

The series of tests used to approve each batch of product along with acceptance limits will be agreed upon by the purchaser and seller. The laboratory providing the certificate of analysis must also participate in a proficiency testing program (round robin) that is approved by the Fuels, Fluids, and Lubricants Global Subsystem Leadership Team (GSSLT) or designate. The Fuels, Fluids, and Lubricants GSSLT or designate must receive copies of the proficiency testing reports directly from the test program administrator.

5.4 Initial Source Approval. No shipment shall be made by any supplier until representative initial production samples have been approved by the Fuels, Fluids, and Lubricants Global Subsystem Leadership Team or designees meeting the requirements of this specification.

5.5 Material Safety Data Sheets/Safety Data Sheets (MSDS/SDS). For new product submissions, or when a change in chemical composition of an existing product has occurred, a complete copy of the Material Safety Data Sheet/Safety Data Sheet must be submitted in compliance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) requirements or other country-specific MSDS/SDS requirements.