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## SAE J1527 Marine Fuel Hoses

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#### SAE J1527 Document Information:

##### Title

Marine Fuel Hoses

##### SAE International

##### Publication Date:

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##### Scope:

This SAE Standard specifies requirements for two types, two classes and three styles of reinforced hose for conveying gasoline or diesel fuel aboard small craft including pleasure craft whose fuel systems are regulated under 33 CFR 183 Subpart J.

Refer to SAE J1942 Hose and Hose Assemblies for commercial marine nonmetallic flexible hose or hose assemblies used in systems on board commercial vessels inspected and certified by the U.S. Coast Guard.

Refer to SAE J2046 Personal Watercraft Fuel Systems for fuel hose used on Personal Watercraft.

##### Hose Types

Two types of hose meeting 33 CFR 183 Subpart J requirements with respect to fire resistance are covered by this document.

##### USCG Type A

This hose must provide a minimum 2-1/2 min of fire resistivity with no evidence of leakage when subjected to the fire test in paragraph 5.

##### USCG Type B

This hose need not be subjected to the 2-1/2 min fire test.

##### Hose Classifications

##### Fuel Resistance and Rate of Permeation.

Hose intended for applications such as fuel feed lines where liquid fuel is normally continuously in the hose.

##### Class 1

##### Class 1-15

Hose intended for applications such as fuel tank vent and fill hoses, where liquid fuel is not normally continuously in contact with the hose.

##### Class 2

##### Hose or Tubing Construction Styles

##### Style R1

The construction of this hose embodies a smooth bore fuel and oil resistant tube, reinforced with one or more plies of textile fiber yarn, cord or fabric, and finished with a suitable oil, ozone, and heat-resistant cover. For Class 1 and Class 1-15 service, covers or sleeves having a lower permeation rate than the tube shall be pinpricked.

##### Style R2

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The construction of this hose embodies a smooth bore fuel and oil resistant tube, a helical wire imbedded in the hose, and finished with a suitable oil, ozone, and heat-resistant cover. Plies of fabric or cord may be applied between the tube or cover and the helical wire. The helical wire must not be exposed after the cover is subjected to the abrasion test in paragraph 6.

#### Style R3

The construction of this hose embodies a smooth bore fuel and oil resistant tube, reinforced with one or more braids of wire, and finished with a suitable oil, ozone, and heat-resistant cover. These hoses shall be used with end fittings complying with SAE specification J516-100R5

For identification and ordering purposes the following should be listed in order:

USCG Type, Fuel Resistance/Permeation, Construction Style.

Example of Hose Identification: USCG Type A1 Style R2 means the hose meets USCG Type A requirements for fire resistance, Class 1 requirements for fuel resistance/permeation and Style R2 for a helical wire embedded hose.

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