

**Test Procedure to Determine the Hydrocarbon Losses from Fuel Tubes, Hoses, Fittings,
and Fuel Line Assemblies by Recirculation**

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1. Scope

This SAE Recommended Practice is intended for the determination of the losses of hydrocarbon fluids, by permeation through component walls as well as through "microleaks" at interfaces of assembled components while controlling temperature and pressure independently of each other. This is achieved in a recirculating system in which elements of a test fuel that permeate through the walls of a test specimen and migrate through the interfaces are transported by a controlled flow of dry nitrogen to a point where they are measured. That measurement point is a device, such as a canister containing activated charcoal or other means of collection or accumulation where the hydrocarbon losses are then measured by weight change or analyzed by some other suitable means.

2. References

2.1 Applicable Publication

The following publication forms a part of the specification to the extent specified herein. Unless otherwise indicated, the latest revision of SAE publications shall apply.

2.1.1 SAE PUBLICATIONS

Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J30—Fuel and Oil Hoses

SAE J1527—Marine Fuel Hoses

SAE J1681—Gasoline, Alcohol and Diesel Surrogates for Material Testing