



# AEROSPACE STANDARD

AS1730™

REV. E

Issued	1982-09
Reaffirmed	2007-08
Revised	2011-07
Stabilized	2018-07

Superseding AS1730D

Coupling, Fuel, Rigid, Threaded Type

## RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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## 1. SCOPE

This specification defines the requirements for a threaded rigid coupling assembly, which utilizes ferrule type machined tube end fittings, to join tubing and components in aircraft fuel, vent, and other systems. This coupling assembly is designed for use from -65 to 200 °F and at 125 psig operating pressure.

### 1.1 Classification

1.1.1 The coupling assemblies shall be of the following types:

- a. Type I: without wrenching lugs
- b. Type II: with wrenching lugs

## 2. APPLICABLE DOCUMENTS

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

### 2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), [www.sae.org](http://www.sae.org).

AS567	Safety Cable, Safety Wire, Key Washers, and Cotter Pins for Propulsion Systems, General Practices for Use of
AS568	Aerospace Size Standard for O-rings
ARP1185	Flexure Testing of Hydraulic Tubing Joints and Fittings
AS1731	Coupling, Rigid, Fixed Cavity, Threaded Ferrule Type Tube Ends, Envelope Dimensions Design Standard

AS1732	Body, Coupling, Rigid, Fixed Cavity, Threaded, Ferrule Type Tube Ends, Type I
AS1733	Body, Coupling, Rigid, Fixed Cavity, Threaded, Ferrule Type Tube Ends, Type II
AS1734	Nut, Coupling, Rigid, Fixed Cavity, Threaded, Ferrule Type Tube Ends, Type I
AS1735	Nut, Coupling, Rigid, Fixed Cavity, Threaded, Ferrule Type Tube Ends, Type II
AS1736	Washer, Coupling, Rigid, Fixed Cavity, Threaded, Ferrule Type Tube Ends
AS1737	Ferrule, Coupling, Rigid, Fixed Cavity, Threaded, Ferrule Type Tube Ends
AS4060	Tube Fitting Swaged Joint, Roller Expander Manual Process, Requirements for
AS7003	Nadcap Program Requirements
ARP9013	Statistical Product Acceptance Requirements
AMS-WW-T-700/6	Tube, Aluminum Alloy, Drawn, Seamless, 6061

## 2.2 U.S. Government Publications

Available from the Document Automation and Production Service (DAPS), Building 4/D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Tel: 215-697-6257, <http://assist.daps.dla.mil/quicksearch/>.

PPP-B-566	Boxes, Folding Paperboard
PPP-B-585	Boxes, Wood, Wirebound
PPP-B-676	Boxes, Set-Up
VV-P-236	Petrolatum, Technical
MIL-HDBK-831	PREPARATION OF TEST REPORTS
MIL-L-10547	Liners, Case and Sheet, Overwrap: Water-Vaporproof or Waterproof, Flexible
MIL-PRF-680	Performance Specification Degreasing Solvent
MIL-PRF-7024	Performance Specification Calibration Fluids, Aircraft Fuel System Components
MIL-R-25988/1	Rubber, Fluorosilicone Elastomer, Oil and Fuel-Resistant, O-Rings, Class 1, Grade 70
MIL-STD-129	Military Marking for Shipment and Storage
MIL-STD-130	Identification Marking of U.S. Military Property
MIL-STD-810	Environmental Engineering Considerations and Laboratory Tests
MIL-STD-889	Dissimilar Metals
FED-STD-H28/2	Screw Thread Standards for Federal Services Section 2: Unified Inch Screw Threads - UN and UNR Thread Forms