



AEROSPACE INFORMATION REPORT

AIR 1564

Society of Automotive Engineers, Inc.
400 COMMONWEALTH DRIVE, WARRENDALE, PA. 15096

Issued 2-15-79
Revised

MATERIALS FOR FLUID SYSTEMS COMPONENTS AND THEIR INTERNATIONAL EQUIVALENTS

INTRODUCTION

This Aerospace Information Report (AIR) summarizes the materials referenced in specifications for components used in U.S. A. fluid systems and, where available, the equivalent materials of France, Germany, United Kingdom, and USSR.

The equivalent material information was obtained from periodicals, books and data supplied by individual contributors.

No attempt has been made to obtain samples of the materials or conduct physical and chemical analyses to determine if they were equivalent. Anyone using this AIR, therefore, is cautioned to verify for themselves the interchangeability of the specific materials.

Additional contributions of missing or supplemental data should be directed to SAE marked for the attention of Committee G-3.

PREPARED BY

SAE COMMITTEE G-3, AEROSPACE FITTINGS, HOSE & TUBING ASSEMBLIES

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INTERNATIONAL EQUIVALENTS TO MATERIALS USED IN U. S. A. FLUID SYSTEMS
ALUMINUM ALLOY

U. S. A.		FRANCE		GERMANY		U. K.		U. S. S. R.	
Spec. No.	Type	Spec. No.	Type	Spec. No.	Type	Spec. No.	Type	Spec. No.	Type
QQ-A-225/4	2014-T6			3.1255	AlCuMnSi	L65			
QQ-A-225/5	2017-T4					L102			
QQ-A-225/6	2024-T4, T6, T62, T351, T851			DIN1725 3.1355	AlCuMg2	L102			
QQ-A-225/8	6061-T6, T651			3.4365	AlZnCu7.5	L85			
QQ-A-225/9	7075-T73					DTD5054			
QQ-A-266	-T6								
QQ-A-268	-T6, -T851								
QQ-A367	2014-T4, T-6								
QQ-A-367	7075-T73			DIN1725 3.1255	AlZnSiMn				
WW-T-700/4	5052			DIN1725 3.4365	AlZnMgCu1.5	L56			
WW-T-700/6	6061-T6 Type 1								
MIL-A-22771	7075-T73								
MIL-A-7081	6061								

COPPER ALLOY

QQ-B-626 Comp 21

QQ-B-626 Comp 22 1/2 Hd.

QQ-B-728 1/2 Hd.

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MATERIAL REFERENCES IN SPECIFICATIONS FOR COMPONENTS USED IN U.S.A. FLUID SYSTEMS

STEEL

Material		UNITED STATES MILITARY SPECIFICATION PARAGRAPH REFERENCE									
Spec. No.	Type	Hydraulic System	Flareless Fittings	Fitted Fittings	Low Pr. Rubber Hose End	Med. Pr. Rubber Hose End	High Pr. Rub. Hose End	Lt. Wt. Eng. Rub. Hose Assy.	Med. Pr. Teflon Hose Assy.	Med. Pr. Teflon Hose End	High Pr. Teflon Hose Assy.
QQ-S-624		MIL-H-5440	MIL-F-18280	MIL-F-5509	MIL-A-38726	MIL-A-5070	MIL-F-8789	MIL-F-83798	MIL-H-25579	MIL-F-27272	MIL-H-38360
QQ-S-633	C-1137						3.4				
QQ-S-633	C-1141						3.4				
QQ-S-637	C-1137		3.2	3.1	3.3		3.4				
QQ-S-637	C-1141		3.2	3.1	3.3		3.4	Note 1 of Std.			
QQ-S-637	C-1213		3.2				3.4	Note 1 of Std.			
AMS5050											
AMS5053											
MIL-T-5066	C-1025			3.1							
MIL-S-5626	4140			3.1	3.3						
MIL-S-6049							3.4				
MIL-S-6050							3.4				
MIL-T-6736				3.1			3.4				
MIL-S-6758	4130			3.1			3.4				
MIL-S-8695				3.1	3.3		3.4				
ASTM A576-677	C-1137		3.2								
ASTM A576-677	C-1141		3.2								
ASTM A576-677	C-1213		3.2								

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