

# Common Military Specifications

**AMS** - Aerospace Material Specifications

**MIL** - Military Specifications

**ASTM** - Automotive Applications

Material Specification	Durometer (+/-5)	Elastomer	Temperature Range °F	Description
MIL-PFR-6855				
Class 1	30, 40, 50, 60, 70, 80	Nitrile	-40 to +212	Fuel and Petroleum Oil Resistant
Class 2		Neoprene		Petroleum Oil, Weather, and Ozone Resistant
Class 3		Stryene-Butadiene		Non-Oil Resistant
Class 4		Neoprene		Petroleum Oil, Weather, and Ozone Resistant (contact with Acryilic and Polycarbonate Plastic)
Class 5		Stryene-Butadiene		Non-Oil Resistant (contact with Acryilic and Polycarbonate Plastic)
ASTM D2000				
M1AA710	70	SBR, EP	-40 to +158	Non-Oil Resistant
M1BA710	70	EP	-40 to +212	Non-Oil Resistant
M1BC710	70	Neoprene	-40 to +212	Some Oil Resistant
M1BG710	70	Nitrile	-40 to +212	Oil Resistant
M1CA710	70	EP	-40 to +257	Non-Oil Resistant
M1CH710	70	Nitrile, Epichlorohydrin	-40 to +257	Oil Resistant
M1DA710	70	EP	-67 to +302	Non-Oil Resistant
M1DH710	70	HNBR, Polyacrylic	-40 to +302	Oil Resistant
M1FK606	60	Fluorosilicone	-67 to +392	Oil Resistant, High Heat, Low Temperature
M1GE706	70	Silicone	-67 to +437	High Heat, Low Temperature
M1HK710	70	Fluorocarbon	-13 to +482	Oil Resistant, High Heat

( ) = Military equivalent

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AMS 3208	50	Neoprene	-40 to +212	Weather Resistant
AMS 3209	70	Neoprene	-40 to +212	Weather Resistant
AMS 3237F	40	Butyl	-30 to +100	Phosphate Ester Resistant
AMS 3238F	70	Butyl	-30 to +100	Phosphate Ester Resistant
AMS 3301	40	Silicone	-85 to +401	General Purpose
AMS 3302	50	Silicone	-85 to +401	General Purpose
AMS 3303	60	Silicone	-85 to +401	General Purpose
AMS 3304	70	Silicone	-85 to +401	General Purpose
AMS 3305	80	Silicone	-85 to +401	General Purpose
AMS 3336	60	Phenyl Silicone	-121 to +446	Extreme Low Temperature Resistant
AMS 3337	70	Phenyl Silicone	-121 to +446	Extreme Low Temperature Resistant
AMS 3338	80	Phenyl Silicone	-121 to +446	Extreme Low Temperature Resistant
AMS 3382	75, 90	AFLAS®	+23 to +450	Hydraulic Fluid and Synthetic Oil Resistant
AMS 7271	65	Nitrile	-67 to +257	Fuel and Low Temperature Resistant
AMS 7272	70	Nitrile	-15 to +302	Synthetic Lubricant Resistant
AMS-R-83285	60, 80	Ethylen-Propylene	-40 to +212	General Purpose
AMS-R-83485 (MIL-R)	75	Fluorocarbon	-40 to +400	Low Temperature, Fuel Resistant, Low Compression Set
High Temperature Fluid Resistant and Low Compression Set				
AMS 7259	90	Fluorocarbon	-20 to +400	Resistance QPL Listing
AMS 7276	75		-20 to +400	
AMS 3216	75	Fluorocarbon	-20 to +400	Non QPL
AMS 3218	90		-20 to +400	
AMS-R-83248 (MIL-R)	75, 90		-20 to +500	
AMS-R-25988 (MIL-DTL)				
Class 1	40, 50, 60, 70, 80	Fluorosilicone	-76 to +392	Oil and Fuel Resistant
Class 2	50		-76 to +392	High-Strength Oil and Fuel Resistant
Class 3	75		-76 to +437	High Modulus Oil and Fuel Resistant
A-A-59588 / ZZR-765				
Class 1A	40, 50, 60, 70, 80	Phenyl Silicone	-100 to +425	Low Temp Resistant
Class 1B	40, 50, 60, 70, 80	Phenyl Silicone	-100 to +425	Low Temp Resistant, Low Compression Set
Class 2A	25, 40, 50, 60, 70, 80	Silicone	-80 to +425	High Temperature
Class 2B	25, 40, 50, 60, 70, 80	Silicone	-80 to +425	High Temperature, Low Compression Set
Class 3A	30, 50, 60	Phenyl Silicone	-103 to +400	Low Temperature, Tear and Flex Resistant
Class 3B	30, 50, 60, 70, 80	Silicone	-94 to +400	Tear and Flex Resistant

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