

Aerospace Materials

AMS⁽¹⁾ and NAS⁽²⁾ Rubber Specification Descriptions			
RUBBER SPECS	PARKER COMPOUND	DUROMETER	DESCRIPTION TITLE
AMS3201	N0545-40	35-45	Dry Heat Resistance
AMS3205	N0299-50	45-55	Low Temperature Resistance
AMS3208	C0267-50	45-55	Weather Resistant, Chloroprene Type
AMS3209	C1124-70	65-75	Weather Resistant, Chloroprene Type
AMS3212	N0525-60	55-65	Aromatic Fuel Resistant
AMS3220	N0525-60	55-65	General Purpose, Fluid Resistant
AMS3238	B0318-70	65-75	Phosphate-Ester Resistant, Butyl Type
AMS3301	S0469-40	35-45	Silicone, General Purpose
AMS3302	S0595-50	45-55	Silicone, General Purpose
AMS3303	S0613-60	55-65	Silicone, General Purpose
AMS3304	S1224-70 S0604-70	65-75	Silicone, General Purpose
AMS3305	S0614-80	75-85	Silicone, General Purpose
AMS3325	L1223-60 LM152-60	55-65	Fluorosilicone Rubber, Fuel and Oil Resistant
AMS3337	S0383-70	65-75	Silicone, Extreme Low Temperature Resistant
AMS3345	S0899-50	45-55	Silicone Rubber
AMS3357	S1224-70 S0604-70	65-75	Silicone Rubber, Lubricating Oil, Compression Set Resistant
AMS7257	V8545-75, FF200-75	70-80	Sealing Rings, Perfluorocarbon, High Temperature Resistant
AMS7259	V0709-90	85-95	High Temp, Fluid Resistant, Very Low Compression Set FKM
AMS7267	S0355-75	70-80	Silicone, Heat Resistant, Low Compression Set
AMS7271	N0506-65	60-70	Fuel and Low Temperature Resistant

MATERIAL OFFERING

(1) Aerospace Material Specification issued by the Society of Automotive Engineers, Inc.

(2) National Aerospace Standard issued by Aerospace Industries Association of America, Inc.

AMS⁽¹⁾ and NAS⁽²⁾ Rubber Specification Descriptions			
RUBBER SPECS	PARKER COMPOUND	DUROMETER	DESCRIPTION TITLE
AMS7272	N0287-70	65-75	Synthetic Lubricant Resistant
AMS7276	V1164-75 V1226-75 V0747-75	70-80	High Temp. Fluid Resistant, Very Low Compression Set FKM
NAS1613	E1267-80,	75-85	Packing, O-ring, Phosphate Ester Resistant
AMS-P-5315	N0602-70	65-75	Packing O-ring, Hydrocarbon Fuel Resistant
AMS-P-5510	N0507-90	85-95	Gasket, Straight Thread Tube Fitting Boss
AMS-R-6855	N0406-60, C1124-70	55-75	Synthetic Rubber Sheets, Strips, Molded or Extruded Shapes, Synthetic Oil Resistant
AMS-R-7362	47-071	65-75	Rubber, Sheet, Molded and Extruded Shapes, Synthetic Oil Resistant
AMS-P-25732	N0304-75	70-80	Packing, Preformed, Petroleum Hydraulic Fluid Resistant, Limited Performance
AMS-R-25988	L1223-60, L1120-70, L1218-80, L1077-75 LM152-60 LM153-70 LM154-75 LM155-80	55-85	Rubber, Fluorosilicone Elastomer, Oil and Fuel Resistant
AMS-R-83248	V1164-75, V1226-75, V0747-75 V0709-90	70-95	Rubber, Fluorocarbon Elastomer, High Temperature Fluid and Compression Set Resistant
AMS-P-83461	N0756-75	70-80	Packings, Preformed, Petroleum Hydraulic Fluid Resistant, Improved Performance
AMS-R-83485	V0835-75	70-80	Rubber, Fluorocarbon Elastomer, Improved Performance at Low Temperatures

(1) Aerospace Material Specification issued by the Society of Automotive Engineers, Inc.

(2) National Aerospace Standard issued by Aerospace Industries Association of America, Inc.



Military Rubber Specifications

Note: In compliance with the Federal Acquisition Streamlining Act (FASA), most of these specifications are being revised to AMS specifications. For the most current information, contact the O-Ring Division.

RUBBER SPECS	PARKER COMPOUND	DESCRIPTION
ZZ-R-765E		Rubber, Silicone
Class	Grade	Temperature Range⁽¹⁾
1a. 1b. 2a. 2b.	50	S0899-50 - 103 to 437°F (-75 to 225°C) Low and High Temperature Resistant, Low Compression Set
1a. 1b	70	S0383-70 - 103 to 437°F (-75 to 225°C) Low Temperature Resistant, Low Compression Set
2a. 2b	80	S0614-80 - 80 to 437°F (-62 to 225°C) High Temperature Resistant, Low Compression Set
2a. 2b	70	S1224-70 - 80 to 437°F (-62 to 225°C) High Temperature Resistant, Low Compression Set S0604-70
MIL-G-1149C - Type I Class 1	Gasket Materials, Synthetic Rubber, 50 and 65 Durometer Hardness C0267-50	(-20 to 212°F) (-29 to 100°C) ⁽¹⁾
MIL-R-3533B - Type I Grade B	Rubber, Synthetic; Sheet, Strip and Molded N0602-70	(-20 to 158°F) (-29 to 70°C) ⁽¹⁾
MIL-P-5315B -	Packing, O-ring, Hydrocarbon Fuel Resistant (Jet Fuels) (Military O-ring series MS29512 and MS29513) N0602-70	(-65 to 160°F) (-54 to 71°C)
MIL-P-5510C -	Gasket, Straight Thread Tube Fitting Boss (MIL-H-5606 Petroleum Based Hydraulic Fluid) N0507-90	(-45 to 160°F) (-43 to 71°C) ⁽¹⁾ (Military O-ring series MS28778)
MIL-R-6855D - Class 1 Grade 60 Class 2 Type B Grade 70	Synthetic Rubber Sheets, Strips, Molded or Extruded Shapes N0406-60 C1124-70	(-65 to 212°F) (-54 to 100°C) ⁽¹⁾ Fuel and Petroleum Oil Resistant Petroleum Oil, Weather and Ozone Resistant

(1) These temperatures are limits for particular tests required by the specifications, but they do not necessarily represent operating temperature limits.

RUBBER SPECS	PARKER COMPOUND	DESCRIPTION
MIL-R-7362D - Types I, II	Rubber, Sheet, Molded and Extruded Shapes, Synthetic Oil Resistant (AMS3021) 47-071	Synthetic, Di-Ester Base Lubricant (-65 to 275°F) (-54 to 135°C) ⁽¹⁾ (Military O-ring series MS29561 and WAS617)
MIL-G-21569B - Class I Class II	Gaskets, Cylinder Liner Seal, Synthetic N0674-70 S0604-70	(Room temperature to 194°F) (RT to 90°C)
MIL-P-25732C -	Packing, Preformed, Petroleum Hydraulic Fluid Resistant (MIL-H-5606) N0304-75	Petroleum Base Hydraulic Fluid (-65 to 275°F) (-54 to 135°C) ⁽¹⁾ (Military O-ring series MS28775)
MIL-R-25988 - Type 1, Class 1, Grade 60/3 L1223-60, LM152-60 Type 1, Class 1, Grade 70/1 L1120-70, LM153-70 Type 1, Class 1, Grade 80/4 L1218-80, LM155-80 Type 1, Class 3, Grade 75/2 L1077-75, LM154-75	Rubber Fluorosilicone Elastomer, Oil and Fuel Resistant (MIL-H-5606 Petroleum Base) Hydraulic Fluid, Fuel, Air (-90 to 350°F) (-68 to 176°C) ⁽¹⁾	
MIL-P-82744 -	Packing, Preformed, Otto Fuel Compatible (-65 to 250°F) (-54 to 121°C) E0515-80	
MIL-R-83248C, Type I - Class I Class 2	Rubber, Fluorocarbon Elastomer, High Temperature Fluid and Compression Set Resistant (-15 to 400°F) (-5 to 105°C) V0747-75, V1164-75, V1226-7 V0709-90	
MIL-R-83485	Grade 80 V0835-75	Rubber, fluorocarbon Elastomer, Improved performance @ low Temp
MIL-P-83461B -	Packings, Preformed, Petroleum Hydraulic Fluid Resistant, Improved Performance N0756-75	(-65 to 275°F) (-54 to 135°C) ⁽¹⁾

(1) These temperatures are limits for particular tests required by the specifications, but they do not necessarily represent operating temperature limits.