



ACCURATE FELT & GASKET MFG. CO., INC.

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Commercial Standard Grade SAE Number NTA Number	16R1 F-1 34R1	16R1X F-50 34R1	16R2 F-2 34R2	16R3 F-3 34R3	16R3X F-51 34R3	12R1 F-5 26R1	12R2 F-6 26R2	12R3 F-7 26R3
GENERAL PROPERTIES								
Wool Content (fiber basis), min. %	95	95	90	85	92	95	87	80
Density (1") lbs/sq yd	16.00	15.60	16.00	15.60	15.60	12.24	12.24	12.24
Standard Thickness Range, In.	1/8 to 1	3/64 to 3/32	1/8 to 1	1/8 to 1	3/64 to 3/32	1/8 to 1	1/8 to 1	1/8 to 1
Standard Width, In.	60	60 or 72	60	60	60 or 72	60	60 or 72	72
Color	white	white	any but grey or black	gray	gray	white	gray	gray
PHYSICAL PROPERTIES								
Specific Gravity (%)	34	34	34	34	34	26	26	26
Therm. Condo (70F), btu/hr/sq ft/°F/In.	0.36	0.32	0.36	0.35	0.32	0.30	0.30	0.30
Thermal Expansion	0	0	0	0	0	0	0	0
Air Perm (1/16"), cfm/sq ft/0.5"H2O	10-30	15-25	10-30	15-35	15-40	20-50	20-50	20-50
Liquid Absorption, % by weight (1.0 sp gr)	>175	>180	>175	>190	>170	>250	>225	>225
Liquid Absorption, % by volume	74	75	74	76	75	80	80	80
Capillarity (wicking height, 575 SSU, 70F), In.	4.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0
Coef of Friction (1)	0.37	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Vibration Absorption (2) static load bearing cap/unit area	high	-	high	high	-	medium	medium	medium
Vibration Absorption (2) dynamic stress endurance	high	-	high	high-med	-	high	high	medium
Noise Reduction Coef (1")	0.50	0.55	0.50	0.52	0.55	0.58	0.58	0.58
MECHANICAL PROPERTIES								
Tensile Strength (min), psi	500	500	500	400	300	400	275	250
Elongation (100 psi), %	13	8	14	16	9	16	18	21
Mullen Bursting Strength (1/8"), psi	250	225	225	200	225	175	150	125
Spilt Resistance (min), lb/2" width	33	-	28	22	-	18	16	12
Hardness Range, Shore A	30-40	-	30-40	30-40	-	20-30	20-30	20-30
Compressibility (10% defl), psi	21	-	21	13	-	6	6	6
Recovery (within 1min after 10% defD %	99	99	99	99	99	99	99	99
Abrasion Resistance (3)	excellent	excellent	excellent	excellent	excellent	good	good	good
CHEMICAL AND ENVIRONMENTAL PROPERTIES								
Effect of Sunlight and Oxidation	none	none	none	none	none	none	none	none
Solvent Resistance and Stability in oil	excellent	excellent	excellent	excellent	excellent	excellent	excellent	excellent
Acid Resistance, dilute	excellent	excellent	excellent	excellent	excellent	excellent	excellent	good
Acid Resistance, concentrated	good-fair	fair-good	good-fair	good-fair	fair-good	good-fair	good-fair	fair
Alkali Resistance, dilute	fair	fair	fair	fair	fair	fair	fair	fair
Alkali Resistance, concentrated	low	low	low	low	low	low	low	low
Temperature Range, °F	-80 to +200	-80 to +200	-80 to +200	-80 to +200	-80 to +200	-80 to +200	-80 to +200	-80 to +200
TYPICAL USES	Bearing seals, Ink rolls, Polishing, Printing pads, Lubricator Wicks, and precision uses where high grade felt with good appearance and durability is required.	Ball and Roller Bearings, Precision Seals, Strip Wicks, Industrial filters and uses requiring thin precision felt.	Vibration Mounts, Precision Channels, Oil Seals, Bumpers Gas-kets, and Lubricator wicks.	Automotive, Aircraft, Machine Components Similar to 16R1 and 16R2. Where lower quality Is acceptable.	Gaskets, Liners, Bearing Seals. Where precision tolerances, life and quality are not as exacting.	Lubricators, Wipers, Shock Dampeners, where durable resilient felt is required.	Grease Retainers, Spacer Strip Seals, Vibration Mounts, Weather Strips, Journal Lubricators.	Dust shields, all and Grease Retainers; similar to 12R1 and 12R2 where a lower grade Is acceptable.

The above materials are non-raveling and most can be fabricated by: die-cutting, stripping, skiving, laminating, and shaping. The information on this data sheet are obtained by ASTM D-461 Test Method, ASTM D2475 Standard, and NTA Wool Fell Specifications. We believe the information to be accurate, relevant and reliable. Please look upon these values as guides rather than absolutes. Since actual service conditions for a given application may vary substantially from standard laboratory conditions, specific recommendations or warranties relative to a specific end use cannot be made. The buyer is urged to conduct its own investigations and qualification tests to determine suitability for its intended application. Accurate Felt & Gasket Mfg. Co. shall not be liable for any damages arising out of the use of any of its guide specifications.



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Commercial Standard Grade SAE Number NTA Number	12R3X F-55 26R3	9R1 F-10 18R1	9R2 F-11 18R2	9R3 F-12 -	9R4 F-13 18R3	9R5 F-15 -	8R5 F-26 17R2
GENERAL PROPERTIES							
Wool Content (fiber basis), min. %	75	95	87	85	75	55	45
Density (1") lbs/sq yd	12.00	8.48	8.48	8.48	8.48	8.48	7.20
Standard Thickness Range, In.	1/16 to 3/32	1/8 to 1	1/8 to 1	1/8 to 1	1/8 to 1	1/8 to 1	1/8 to 1
Standard Width, In.	60 or 72	72	72	72	72	72	72
Color	gray / black	white	gray	gray	gray	gray	gray
PHYSICAL PROPERTIES							
Specific Gravity (%)	26	18	18	18	18	18	17
Therm. Condo (70F), btu/hr/sq ft°F/In.	0.30	0.30	0.24	0.24	0.24	0.24	0.25
Thermal Expansion	0	0	0	0	0	0	0
Air Perm (1/16"), cfm/sq ft/0.5"H2O	20 - 50	75 - 150	75 - 150	75 - 150	75 - 150	75 - 150	100 - 200
Liquid Absorption. % by weight (1.0 sp gr)	>225	>400	>375	>350	>350	>350	>400
Liquid Absorption. % by volume	81	88	88	88	88	88	92
Capillarity (wicking height. 575 SSU. 70F).In.	3.0	2.5	2.5	2.5	2.5	2.5	
Coef of Friction (1)	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Vibration Absorption (2) static load bearing cap/unit area	-	low	low	low	law	low	very low
Vibration Absorption (2) dynamic stress endurance	-	high	high -medium	medium	low	low	very low
Noise Reduction Coef (1")	0.58	0.58	0.64	0.64	0.64	0.64	0.65
MECHANICAL PROPERTIES							
Tensile Strength (min), psi	200	225	200	100	75	75	
Elongation (100 psi), %	25	33	35	35	37	39	
Mullen Bursting Strength (1/8"), psi	200	75	60	55	50	40	25
Spilt Resistance (min), lb/2" width	-	8	6	3	2	2	
Hardness Range, Shore A	-	15-25	15-25	15-25	15-25	15-25	5-15
Compressibility (10% defl), psi	-	4	4	3	3	3	1
Recovery (within 1min after 10% defD %	99	99	99	99	99	99	99
Abrasion Resistance (3)	good	fair	fair	fair	fair	fair	poor
CHEMICAL AND ENVIRONMENTAL PROPERTIES							
Effect of Sunlight and Oxidation	none	none	none	none	none	none	none
Solvent Resistance and Stability in oil	excellent	excellent	excellent	excellent	excellent	excellent	excellent
Acid Resistance, dilute	good	excellent	excellent	good	fair	fair	fair
Acid Resistance, concentrated	fair	fair-good	fair-good	fair-good	fair	fair	poor
Alkali Resistance, dilute	fair	fair	fair	fair	fair	fair	fair
Alkali Resistance ,concentrated	law	low	low	law	low	low	low
Temperature Range, °F	-80 to +200	-80 to +200	-80 to +200	-80 to +200	-80 to +200	-80 to +200	-80 to +200
TYPICAL USES	Anti-squeak Strips. Antidrumming and Insulation lining laminated to other materials.	Fluid storage and delivery. Resilient Padding, plug filters for gas and air.	Dryer Drum Seals, Impregnated packing. Insoles. Insulation; Oil, dust and Mud shields.	Chassis strips. Spacers. Dash Liners. Anti-squeak Strips and Pads. Sound Deadening, and Acoustic Uses.	Grease and all retention. protective lining and Insulation for Freight Cars, Trucks. Dunnage, uses similar to 9R2 and 9R3 where less durability and lower grade felt ls acceptable.		Packing or padding when held between other materials; not recommended for mechanical use.

The above materials are non-raveling and most can be fabricated by: die-cutting, stripping, skiving, laminating, and shaping. The information on this data sheet are obtained by ASTM D-461 Test Method, ASTM D2475 Standard, and NTA Wool Fell Specifications. We believe the information to be accurate, relevant and reliable. Please look upon these values as guides rather than absolutes. Since actual service conditions for a given application may vary substantially from standard laboratory conditions, specific recommendations or warranties relative to a specific end use cannot be made. The buyer is urged to conduct its own investigations and qualification tests to determine suitability for its intended application. Accurate Felt & Gasket Mfg. Co. shall not be liable for any damages arising out of the use of any of its guide specifications.