

## TECHNICAL REPORT

### AS-568 FKM 75A MIL-SPEC O-RING

#### GENERAL PROPERTIES

GFS FKM 75A Mil-Spec is an AMS-7276 (M83248/1) certified, 75-Durometer High Performance Black FKM O-ring material. This material has a broad spectrum of excellent resistance to a variety of chemicals and performs well at high temperatures.

<b>AMS7276 Rev. J</b>	LIMITS	TEST DATE	QTY TESTED	SUPPLIER TEST RESULTS (DATA)	OK	NOT OK
<b>3.2.1 Original Properties</b>						
3.2.1.1 Durometer, Shore A pts (rings)	75 ± 5	3/7/22	5	76	✓	
3.2.1.a Durometer, Shore A pts (plied)	75 ± 5	3/7/22	5	75	✓	
3.2.1.2 Tensile Strength, Mpa	9.65 min	3/7/22	3	13	✓	
3.2.1.3 Elongation, %	125 min	3/7/22	3	201	✓	
3.2.1.4 Specific Gravity	Report	3/7/22	1	1.85	✓	
<b>3.2.2 Compression Set</b>	<b>22hrs @ 200°C</b>					
% Original Deflection	15 max	3/4/22	2	12	✓	
<b>3.2.3 Compression Set</b>	<b>336hrs @ 200°C</b>					
% Original Deflection	40 max	3/15/22	2	29	✓	
<b>3.2.4 Low Temp Properties</b>						
TR10, °C	-15	3/16/22	3	-17°C	✓	
<b>3.2.5 Heat Resistance</b>	<b>70hrs @ 270°C</b>					
3.2.5.1 Duro Change, Shore A pts	-5 to +10	3/10/22	5	2	✓	
3.2.5.2 Tensile Change, %	-35 max	3/10/22	3	-12	✓	
3.2.5.3 Elongation Change, %	-15 max	3/10/22	3	4	✓	
3.2.5.4 Weight Change, %	-10 max	3/10/22	3	-4	✓	
<b>3.2.6 Fuel B</b>	<b>70hrs @ 23°C</b>					
3.2.6.1 Duro Change, Shore A pts	-5 to +5	3/7/22	5	-2	✓	
3.2.6.2 Tensile Change, %	-20 max	3/7/22	3	-8	✓	
3.2.6.3 Elongation Change, %	-20 max	3/7/22	3	-3	✓	
3.2.6.4 Volume Change, %	0 to +5	3/7/22	3	2	✓	
<b>3.2.7 AMS 3023</b>	<b>70hrs @ 200°C</b>					
3.2.7.1 Duro Change, Shore A pts	-15 to 0	3/7/22	5	-7	✓	
3.2.7.2 Tensile Change, %	-35 max	3/7/22	3	-11	✓	
3.2.7.3 Elongation Change, %	-20 max	3/7/22	3	-3	✓	
3.2.7.4 Volume Change, %	+1 to +25	3/7/22	3	17	✓	
<b>Compression Set</b>	<b>70hrs @ 200°C</b>					
3.2.7..5 % Original Deflection	10 max	3/7/22	2	9	✓	