

Quality
Supply Chain
Aftermarket & Production Kitting
Vendor Managed Inventory

AEROSPACE Sealing Solutions

Interior
Engine
Airframe
Cockpit



Kansas City
913-371-7425
1132 Adams Street
Kansas City, KS 66103

Arlington
817-640-1193
330 Westway Place STE 446
Arlington, TX 76018

espint.com | 319.393.4310

ESP Supplier Partners



ESP is supplier agnostic. Meaning we want to provide you with the best-fit option for your application. Whether that be our own developed general purpose material line or from one of our many premier supplier partners.

CAGE CODE

5F263, 5G090, 4K660



For over 50 years, ESP has partnered with Parker Seals. We are proud to be one of the FEW Premier Distributors to qualify as a "Parker Seal Technology Center (STC)".

CAGE CODE

83259, 02697



ESP is proud to be a "Freudenberg North American Preferred Partner":

- Involvement of engineering services
- Highest technical seal competence
- Efficient & speedy cross-linked processes
- High & quick availability assuring a reliable delivery performance

CAGE CODE

1CN74, 05262, 02988



With a legacy dating back to 1910, Precix delivers elastomer solutions for the most demanding Aerospace & Defense applications.

CAGE CODE

70106

AMTIVO
CERTIFICATE OF REGISTRATION

The management system of certificate number 264292
ESP International, Inc. dba SWAN Engineering & Supply Co., Inc.
 1132 Adams Street, Kansas City, KS, 66103, USA
 has been audited in accordance with the requirements of AS 9104/1 dated 2012-01
AS 9120 B / ISO 9001: 2015
 Procurement, Logistical Distribution, and Vendor Consolidation Services involving Elastomer Sealing Products, Custom Molded Products, Thermoplastic Products, and Metallic Components
 Further clarifications regarding the scope of this certificate and the applicability of requirements may be obtained by consulting the certifier.

Initial certification: Friday, March 6, 2020
 Current cycle start: Thursday, July 6, 2023
 Latest issue: Tuesday, March 25, 2025
 Expiry date: Sunday, July 5, 2026
 Subject to annual assessments.

Certification structure: Multi Site

Authorized by

 Mike Tims
 Chief Executive Officer

amtivo.us
 Certificate issued by Amtivo (USA) Inc.
 Amtivo (USA) Inc. is accredited under the (ICOP) Industry Controlled Other Party (Americas) scheme
 Certification is conditional on maintaining the required performance standards throughout the certified period of registration.
 Amtivo (USA) Inc. 7502 W. 80th Avenue, STE. 225-Aranda, Colorado 80003-0708, USA.

AMTIVO

Expiry Date: Sunday, July 5, 2026 Certificate Number 264292

Locations covered under certification:

- **ESP International, Inc. dba SWAN Engineering & Supply Co., Inc. (Overall Certification)**
 1132 Adams Street, Kansas City, KS, 66103, USA
 Procurement, Logistical Distribution, and Vendor Consolidation Services involving Elastomer Sealing Products, Custom Molded Products, Thermoplastic Products, and Metallic Components
- **ESP International**
 330 Westway Place, Suite 446, Arlington, TX, 76010, USA
 Location Scope: Procurement and Logistical Distribution of Elastomer Sealing Products

amtivo.us
 Certificate issued by Amtivo (USA) Inc.
 Amtivo (USA) Inc. is accredited under the (ICOP) Industry Controlled Other Party (Americas) scheme
 Certification is conditional on maintaining the required performance standards throughout the certified period of registration.
 Amtivo (USA) Inc. 7502 W. 80th Avenue, STE. 225-Aranda, Colorado 80003-0708, USA.



ESP Value Add

- **Quality & Compliance**
- **MIL-SPEC Packaging & Kitting**
- **Supplier Resilience**
- **Vendor Consolidation**

Quality & Compliance

ESP's quality management systems are based on the Plan, Do, Check, Act that the standards embrace and backed by a culture of employee empowerment and continuous improvement. At the center of our cycle is the needs and expectations of the interested parties to the functioning of our quality management system. ESP has two AS9120B certified locations (Kansas and Texas). All our aerospace products are manufactured at facilities with TS 16949, QS9001, and AS9100 certifications.

- Control of Nonconforming Outputs (Unapproved and counterfeit)
- Corrective Action
- Continuous Improvement

MIL-SPEC Packaging & Kitting

For many manufacturing operations, kitting and bundles can be a time-consuming cost-eating necessity. Aftermarket kits, production kits, maintenance, and assembly bundles are effectively produced and shipped to your requirements as specified by you.

- Reduce costs
- Free up your labor and manufacturing floor space
- Optional assembly with parts
- Custom, bulk or aftermarket packaging
- Kits can be assembled with parts, sub-assemblies, instruction manuals, letterhead, or most any custom requirements
- Kits can be sent directly to your end customer from ESP, transparent to your end-user

AMS-2817 Packaging Standard

The Society of Automotive Engineers (SAE) International outlines requirements for packaging pre-formed parts, primarily elastomeric seals before they are installed. It focuses on two main goals:

1. Protection from Contamination: The packaging must keep the parts clean and free from foreign materials that could compromise their performance.
2. Positive Identification: Each part needs to be clearly labeled with its part number for easy identification during storage and installation.

Supplier Resilience

Supplier resilience refers to the practices taken to withstand supply chain disruptions. Engineered Seal Products partners with a breadth of premiere approved suppliers that meet our stringent standards and ensure quality and consistency. Knowing where your product is in the supply chain with alternative solutions is never more crucial. Rely on ESP supply chain to mitigate risk and withstand major disruptions - backed by expert knowledge and strategies.

Vendor Consolidation

In today's demanding aerospace environment, managing a multitude of vendors can be a drag on efficiency. At ESP, we offer vendor consolidation solutions specifically tailored to the aerospace manufacturing industry. By partnering with us, you can leverage our established relationships with top-tier suppliers, gaining access to a comprehensive range of parts and materials. This translates to significant cost savings and streamlined purchasing processes - one point of contact for all your needs.

Quality, Safety, & Reliability

	INTERIOR	ENGINE	AIRFRAME	COCKPIT
Aileron Seals			•	
Door Seals	•		•	•
Case Seals		•		
Ceiling Seals	•			
Diaphragms	•			
Gasket Seals				•
Electrical Connector Seals		•	•	•
Elevator Seals			•	
EMI Seals			•	
Face Seals		•		
Flap Track Seals			•	
Floor Seals	•			
Fire-Resistant Seals		•	•	
Fuel Seals			•	
Hydraulic Seals		•	•	
Lip Seals / Oil Seals		•		
Low Friction Oil Seals		•		•
O-Rings	•			•
PTFE Seals		•	•	•
Rudder Seals			•	
Tailcone Seals			•	
Turbine Seals		•		
Weatherstripping	•			•
Wing Root Seals			•	
Window Seals	•			



O-Rings



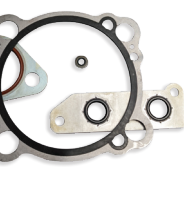
Custom Molded Rubber



Shaft Seals



Hydraulic Seals



Gaskets

ESP Aerospace & Military Seal Materials

Aerospace Products Manufactured at Facilities with

- TS 16949
- QS9001
- AS9100

AMS – Aerospace Material Specification

AN – Army / Navy

ASTM – American Society for Testing and Materials

M – Military

MS – Military Standard

NAS – National Aerospace Standard

SAE – Society of Automotive Engineers

Military Specification O-Rings need only NSN (National Stock Number) or the Military specification Prefix, plus the AS568 dash number (size). No other description is needed to assure exact conformance to the specification. Certification and cure dates are automatically sent when required.

Aerospace - Military Material Matrix

	Brand	Material	Durometer	Industry Material Specification
NBR	Parker	NM304-75	75	MIL-P-25732
	Parker	NM756-75	75	AMS-P83461
	Parker	N0602-70	70	AMS-P-5315
	Parker	NM072-70	70	AMS-R-7362
	Parker	N0287-70	70	AMS7272
	Parker	N0674-70	70	MIL-G-21569, MIL-P-82745
	Parker	N0507-90	90	AMS-P-5510
	Parker	NM506-65	65	AMS7271
	Parker	N0525-60	60	AMS3220
	Freudenberg	N888	75	MIL-P-25732, MS28775
	Freudenberg	N400A	70	AMS-P-5315
	Freudenberg	N456	75	AMS-P-83461
	Precix	M31	70	MIL-P-25732
	EPDM	Parker	EM163-80	80
Parker		E0540-80	80	8243412
Freudenberg		E454	80	NAS1613 Rev 6, NF L 17-241 Grade 41B8
Freudenberg		E458	80	NAS1613 Rev 2
Freudenberg		E480	80	AMS-R-83285 Grade 80, MIL-G-22050 Grade 2
Freudenberg	E481	80	Low temperature EPDM Tg -76° F (-60° C) AMS7XXX (specification under draft)	
CR	Parker	C0267-50	50	AMS3208
	Parker	C1124-70	70	AMS3209
	Parker	CM260-60	60	AMS3241
IIR	Parker	B0318-70	70	AMS3238

- continued

VMQ	Parker	S0595-50	50	AMS3302
	Parker	S0613-60	60	AMS3303, A-A-59588
	Parker	S0383-70	70	AMS3337, A-A-59588
	Parker	S0604-70	70	AMS3304, AMS3357, MIL-G-21569, A-A-59588
	Parker	SM265-70	70	A-A-59588
	Freudenberg	S40	40	AMS3301, A-A-59588 (ZZ-R-765) Class 2A 2B Grade 40
	Freudenberg	S50	50	AMS3302, A-A-59588 (ZZ-R-765) Class 2A 2B Grade 50
	Freudenberg	S60	60	AMS3303, A-A-59588 (ZZ-R-765) Class 2A 2B Grade 60
	Freudenberg	S70	70	AMS3304, A-A-59588 (ZZ-R-765) Class 2A 2B Grade 70, AMS3357, NF EN 2261 Grade 50D7, NF L 17-154 Grade 54D7, L17-250-4 50 D7
	Freudenberg	S80	80	AMS3305, A-A-59588 (ZZ-R-765) Class 2A 2B Grade 80, NF L 17-250 Grade 50D8
Freudenberg	S315	75	AMS7267	
Precix	L107	70	AMS 3304, AMS 3337, AMS 3357, AMS 7268 A-A-59588 Class 2A, Grade 70 A-A-59588 Class 2B, Grade 70, ZZ-R-765E Class 1A,1B, 2A, 2B Grade 70MS9068, AS3582	
Precix	L108	75	AMS 7267, MS9385 (900), MS9386, AS9385 (900), AS9386	
Parker	L1223-60	60	AMS-R-25988 Type 1 Class 1 Grade 60, AMS3325, AMS-R-25988 Type 2 Class 1 Grade 60	
Parker	LM100-70	70	AMS-R-25988 Type 1 Class 1 Grade 70	
Parker	LM256-70	70	AMS-R-25988 Type 2 Class 1 Grade 70	
Parker	L1077-75	75	AMS-R-25988 Type 1 Class 3 Grade 75	
Parker	L1218-80	80	AMS-R-25988 Type 1 Class 1 Grade 80, AMS-R-25988 Type 2 Class 1 Grade 80	
Freudenberg	F60	60	MIL-DTL-25988 Type 1 Class 1 Grade 60, AMS-R-25988/3, NF L 17-261 Grade 61D6, DMD5019	
Freudenberg	F70	70	MIL-DTL-25988 Type 1 Class 1 Grade 70, AMS-R-25988/1, NF L 17-261 Grade 61D7	
Freudenberg	F75	75	MIL-DTL-25988 Type 1 Class 3 Grade 75, AMS-R-25988/2	
Freudenberg	F80	80	MIL-DTL-25988 Type 1 Class 1 Grade 80, AMS-R-25988/4, NF L 17-261 Grade 61D8, DMD5013	
Freudenberg	F215	75	AMS3327	
Freudenberg	F229	80	AMS3383	
Freudenberg	F273	75	AMS7273	
Precix	G04	60	MIL-DTL-25988C, AMS-R-25988 C1Gr60, AMS3325E	
Precix	G16	70	MIL-DTL-25988C, AMS-R-25988 C1 Gr70	
Precix	G20	75	AMS7273	
Precix	G21	75	MIL-DTL-25988C, AMS-R-25988 C13 G75	
Precix	G88	80	MIL-DTL-25988C, AMS-R-25988 C1 G80	
Parker	VM125-75	75	AMS7287	
Parker	VM330-75	75	AMS7276, AMS-R-83248	
Parker <i>obsolete</i>	V1226-75	75	AMS7276, AMS-R-83248	
Parker <i>obsolete</i>	V1289-75	75	AMS7379	
Parker	V0747-75	75	AMS-R-83248	
Parker	VA335-90	90	AMS7259, AMS-R-83248 Type 1, Class 2	
Parker <i>obsolete</i>	V0709-90	90	AMS7259, AMS-R-83248	
Parker	VX065-75	75	AMS7410	
Freudenberg	V70	70	NF L 17-260 Grade 60C7	
Freudenberg	V75	75	AMS3216, AMS7276, MIL-R-83248 Type 1 Class 1, NF L 17-164 Grade 64C8, SBAC DTD5613 Grade 80, DMD5014	
Freudenberg	V90	90	AMS7259, MIL-R-83248 Type 1 Class 2, NF L 17-260 Grade 60C9	
Freudenberg	V115	75	AMS-R-83485, AMS7287	
Freudenberg	V127	75	AMS7379	
Precix	F19	75	AMS7287	
Precix	F75	75	AMS7276, AMS3216	
Precix	F90	90	AMS7259	
Precix	F91	80	DTD 5613A, Grade 80	
Precix	F103	80	-	
Precix	F104	90	-	
Precix	F139	75	AMS7379	
Parker	FF200-75	75	AMS7257	
Parker	V8545-75	75	AMS7257	
Freudenberg Simriz®	SZ498	75	DMD5072	
Freudenberg Simriz®	SZ501	75	AMS7257 (Low Compression Set)	
Freudenberg Simriz®	Z7257	75	AMS7257	
Precix	P03	75	AMS7257D	



Kansas City

913-371-7425

1132 Adams Street
Kansas City, KS 66103

Arlington

817-640-1193

330 Westway Place STE 446
Arlington, TX 76018



**ENGINEERED
SEAL PRODUCTS®**
100% Employee-Owned

5920 Dry Creek LN NE
Cedar Rapids, IA 52402

espint.com | 319.393.4310