

Engineering  
Quality  
Supply Chain  
Assembly  
Aftermarket & Production Kitting  
Vendor Managed Inventory

# AEROSPACE Sealing Solutions

Interior  
Engine  
Airframe  
Cockpit



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



**AS ISO**  
9120B | 9001:2015  
**CERTIFIED**

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

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

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# MANAGEMENT SYSTEM CERTIFICATE

Certificate no.: 1000343651-MSC-ANAB-USA Initial certification date: 08 March, 2020 Issue Date: 06 July, 2023 Expiry Date: 05 July, 2025

This is to certify that the management system of **ESP International dba Texas Seal Supply** 330 Westway Place, Suite #446, Arlington, TX, 76018, USA and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standards: **AS9120B and ISO 9001:2015** (technically equivalent to EN9120:2018 and SJAC9120:A)

and has been audited in accordance with the requirements of AS 9104/1:2012. DNV Business Assurance USA Inc. is accredited under the Industry Controlled Other Party (ICOP) Scheme.

Type of certification structure: Multiple Sites

This certificate is valid for the following scope: **Procurement and Logistical Distribution of Elastomer Sealing Products**

Place and the issue date: Katy, TX, 02 February, 2023



For the issuing office: DNV - Business Assurance 1400 Ravello Drive, Katy, TX, 77449-0164, USA

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid. ACCREDITED UNIT: DNV Business Assurance USA Inc., 1400 Ravello Drive, Katy, TX, 77449, USA - TEL: +1 281-396-1000 - www.dnv.com



Certificate no.: 1000343651-MSC-ANAB-USA Place and the issue date: Katy, TX, 02 February, 2023

## Appendix to Certificate

Locations included in the certification are as follows:

CF	Site Name	Site Address	Site Scope
X	ESP International dba Texas Seal Supply	330 Westway Place, Suite #446, Arlington, TX, 76018, USA	Procurement and Logistical Distribution of Elastomer Sealing Products
	Engineered Seal Products, inc dba SWAN Engineering & Supply	1122 Adams Street, Kansas City, KS, 66103, USA	Procurement, Distribution of mechanical components, fabricated elastomers, seals, metals and custom engineered products



Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid. ACCREDITED UNIT: DNV Business Assurance USA Inc., 1400 Ravello Drive, Katy, TX, 77449, USA - TEL: +1 281-396-1000 - www.dnv.com



# MANAGEMENT SYSTEM CERTIFICATE

Certificate no.: 0989-2009AQ-USA-ANAB Initial certification date: 29 June, 2009 Valid: 12 September, 2022 - 17 June, 2024

This is to certify that the management system of **ESP International, Inc.** 5920 Dry Creek Lane, Cedar Rapids, IA, 52402, USA and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:

**ISO 9001:2015**

This certificate is valid for the following scope: **Design, Assembly, Procurement, and Logistical Distribution of Mechanical Components, Fabricated Elastomers, Seals, Metals, and Custom Engineered Products**

Place and date: Katy, TX, 12 September, 2022



For the issuing office: DNV - Business Assurance 1400 Ravello Drive, Katy, TX, 77449-0164, USA

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid. ACCREDITED UNIT: DNV Business Assurance USA Inc., 1400 Ravello Drive, Katy, TX, 77449, USA - TEL: +1 281-396-1000 - www.dnv.com



Certificate no.: 0989-2009AQ-USA-ANAB Place and date: Katy, TX, 12 September, 2022

## Appendix to Certificate

Locations included in the certification are as follows:

Site Name	Site Address	Site Scope
ESP International, Inc.	5920 Dry Creek Lane, Cedar Rapids, IA, 52402, USA	Design, Assembly, Procurement, and Logistical Distribution of Mechanical Components, Fabricated Elastomers, Seals, Metals, and Custom Engineered Products
ESP International dba Industrial Seal / Texas Seal Supply	330 Westway Place, Suite #446, Arlington, TX, 76018, USA	Procurement and Logistical Distribution of mechanical components, fabricated elastomers, seals, metals and custom engineered products
ESP International, Inc.	1140 Hubbard Ave NE, Cedar Rapids, IA, 52402-3823, USA	Assembly and Logistical Distribution of mechanical components, fabricated elastomers, seals, metals, and custom engineered products
ESP International, Inc.	1225 Cimarron Ave, Cedar Rapids, IA, 52402, USA	Assembly and Logistical Distribution of mechanical components, fabricated elastomers, seals, metals, and custom engineered products
ESP International Shenzhen Division	Pan Tai 2nd Industrial Buggy Tower Long Gang District Shenzhen China 518129	Procurement and Logistical Distribution of Mechanical Components, Fabricated Elastomers, Seals, Metals and Custom Engineered Products
ESP Engineered Components Pvt. Ltd. Division	No 76, Abul Kalam Sahai, Chennai, Tamil Nadu - 600044, India	Assembly and Logistical Distribution of mechanical components, fabricated elastomers, seals, metals and custom engineered products
Engineered Seal Products, inc dba Swan Engineering and Supply	1122 Adams Street, Kansas City, KS, 66103, USA	Assembly and Logistical Distribution of mechanical components, fabricated elastomers, seals, metals and custom engineered products

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid. ACCREDITED UNIT: DNV Business Assurance USA Inc., 1400 Ravello Drive, Katy, TX, 77449, USA - TEL: +1 281-396-1000 - www.dnv.com



### Quality, Safety, & Reliability

	INTERIOR	ENGINE	AIRFRAME	COCKPIT
Aileron Seals			•	
Door Seals	•		•	•
Case Seals		•		
Ceiling Seals	•			
Diaphragms	•			
Gasket Seals				•
Electrical Connector		•	•	•
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	•			

## ESP Value Add

- **Aftermarket & Production Kitting**
- **Engineering**
- **Quality**

### Aftermarket & Production 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

### Engineering

Our strength lies in our ability to assist with design at the front end. Whether it is a sealing application or simple material selection assistance.

- Design Analysis & Feedback
- Solidworks, AutoCAD
- Linear & Non-linear FEA
- Material Selection
- Prototyping
- Design Validation
- Manufacturing

### Quality

Our 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.



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.



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 Partnered":

- 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**



Trelleborg products are commonly specified by leading aircraft manufacturers and OEM customers, sealing solutions on a wide range of critical applications.

### CAGE CODE

**09257, 04827, U1068, 4ZM02, 64422, 5WXQ8, 045J4**

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## Aerospace - Military Material Matrix

	Brand	Compound	Industry Material Specification
NBR	Parker <i>*obsolete</i>	<b>NM304-75</b>	MIL-P-25732
	Parker	<b>NM756-75</b>	AMS-P83461
	Parker	<b>N0602-70</b>	AMS-P-5315
	Parker	<b>NM072-70</b>	AMS-R-7362
	Parker	<b>N0287-70</b>	AMS7272
	Parker	<b>N0674-70</b>	MIL-G-21569, MIL-P-82745
	Parker	<b>N0507-90</b>	AMS-P-5510
	Parker	<b>NM506-65</b>	AMS7271
	Parker	<b>N0525-60</b>	AMS3220
	Freudenberg	<b>N888</b>	MIL-P-25732, MS28775
Freudenberg	<b>N400A</b>	AMS-P-5315	
Freudenberg	<b>N432</b>	AMS-P-25732	
Freudenberg	<b>N456</b>	AMS-P-83461	
Freudenberg	<b>N459</b>	AMS-P-5510	
EPDM	Parker	<b>EM163-80</b>	NAS 1613
	Parker	<b>E0540-80</b>	8243412
	Freudenberg	<b>E454</b>	NAS1613 Rev 6, NF L 17-241 Grade 41B8
Freudenberg	<b>E458</b>	NAS1613 Rev 2	
Freudenberg	<b>E480</b>	AMS-R-83285 Grade 80, MIL-G-22050 Grade 2	
CR	Parker	<b>C0267-80</b>	AMS3208
	Parker	<b>C1124-70</b>	AMS3209
	Parker	<b>CM260-60</b>	AMS3241
IIR	Parker	<b>B0318-70</b>	AMS3238
VMQ	Freudenberg	<b>S40</b>	AMS3301, A-A-59588 (ZZ-R-765) Class 2A 2B Grade 40
	Freudenberg	<b>S50</b>	AMS3302, A-A-59588 (ZZ-R-765) Class 2A 2B Grade 50
	Freudenberg	<b>S60</b>	AMS3303, A-A-59588 (ZZ-R-765) Class 2A 2B Grade 60
	Freudenberg	<b>S70</b>	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	<b>S80</b>	AMS3305, A-A-59588 (ZZ-R-765) Class 2A 2B Grade 80, NF L 17-250 Grade 50D8
Freudenberg	<b>S315</b>	AMS7267	
FVMQ	Parker	<b>S0595-50</b>	AMS3302
	Parker	<b>S0613-60</b>	AMS3303, A-A-59588
	Parker	<b>S0383-70</b>	AMS3337, A-A-59588
	Parker	<b>S0604-70</b>	AMS3304, AMS3357, MIL-G-21569, A-A-59588
	Parker	<b>S0614-80</b>	AMS3305, A-A-59588
	Parker	<b>SM265-70</b>	A-A-59588
	Freudenberg	<b>F60</b>	MIL-DTL-25988 Type 1 Class 1 Grade 60, AMS-R-25988/3, NF L 17-261 Grade 61D6, DMD5019
	Freudenberg	<b>F70</b>	MIL-DTL-25988 Type 1 Class 1 Grade 70, AMS-R-25988/1, NF L 17-261 Grade 61D7
	Freudenberg	<b>F75</b>	MIL-DTL-25988 Type 1 Class 3 Grade 75, AMS-R-25988/2
	Freudenberg	<b>F80</b>	MIL-DTL-25988 Type 1 Class 1 Grade 80, AMS-R-25988/4, NF L 17-261 Grade 61D8, DMD5013
Freudenberg	<b>F215</b>	AMS3327	
Freudenberg	<b>F229</b>	AMS3383	
Freudenberg	<b>F273</b>	AMS7273	
FKM	Parker	<b>VM125-75</b>	AMS7287
	Parker	<b>VM330-75</b>	AMS7276, AMS-R-83248
	Parker	<b>V1226-75</b>	AMS7276, AMS-R-83248
	Parker	<b>V1289-75</b>	AMS7379
	Parker	<b>V0747-75</b>	AMS-R-83248
	Parker	<b>V0709-90</b>	AMS7259, AMS-R-83248
	Parker	<b>VX065-75</b>	-
Freudenberg	<b>V70</b>	NF L 17-260 Grade 60C7	
Freudenberg	<b>V75</b>	AMS3216, AMS7276, MIL-R-83248 Type 1 Class 1, NF L 17-164 Grade 64C8, SBAC DTD5613 Grade 80, DMD5014	
Freudenberg	<b>V90</b>	AMS7259, MIL-R-83248 Type 1 Class 2, NF L 17-260 Grade 60C9	
Freudenberg	<b>V115</b>	AMS-R-83485, AMS7287	
Freudenberg	<b>V127</b>	AMS7379	
FFKM	Freudenberg Simriz®	<b>SZ498</b>	DMD5072
	Freudenberg Simriz®	<b>SZ501</b>	AMS7257 (Low Compression Set)
	Freudenberg Simriz®	<b>Z7257</b>	AMS7257



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