

----- CERTIFICATE OF CONFORMANCE -----

TO: PROPONENT MAIN WHSE
3120 E. ENTERPRISE STREET
BREA, CA 92821

Cust. PO NO: 556855-00

Contract NO:
S/O Number: SA165050

Specification : AMS7276H

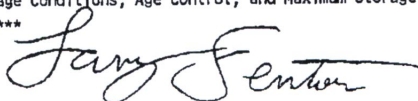
L#	Our Part Number/Customer P/N	Quantity	Batch	Cure
001	62AS568-013 V75 AS568-013 V75	48,740.00	VABV46	1Q19

AS568-013 V75 REV D COUNTRY OF ORIGIN; USA

Test Description	Test Results	Requirements
Compression Set 22 hrs @ 392F; set % of original deflection ASTM D395 and ASTM D1414 (as applicable)	12.9	15 max
Hardness, Durometer A ASTM D2240	80	70 To 80
Tensile Strength, p.s.i. ASTM D412, ASTM D1414	2195	1400 Min
Ultimate Elongation, % ASTM D412, ASTM D1414	199	125 Min
Specific Gravity ASTM D297	1.85	1.82 To 1.86

This is to certify that the above parts were made in conformity with the specification listed, and that the above test results were obtained. This report shall not be reproduced, except in full, without the written approval of Freudenberg-NOK International Seal Laboratory. Furnished material is Mercury free. Storage Conditions, Age Control, and Maximum Storage Life (shelf life and expiration date) per AS5316. ***Country of Origin is USA***

Signed:



Title : Quality Assurance Representative
Date : 02/25/19



FREUDENBERG-NOK
INNOVATING TOGETHER

ICN: 575257-02, Doc Date: 3/1/2019 CERTIFIED TRUE COPY

PACK LIST

Page 1 of 2

Vendor Freudenberg-NOK (Loc 62) International Seal Co., Inc. 2041 E. Wilshire Ave. Santa Ana, CA 92705 UNITED STATES Tax ID#: 95- 2975370- 00		Packing List: 62328912 Invoice: 62328912 Date: 02/25/19 Credit Terms: 1/10N30 1% 10 D N30 Supplier Code: 7343540602 Shipper ID/SID: 62328912							
Ship To PROPONENT MAIN WHSE 3120 E. ENTERPRISE STREET BREA, CA 92821 UNITED STATES Tax ID#:		Sold To 10921072 PROPONENT MAIN WHSE 3120 EAST ENTERPRISE ST BREA, CA 92821- 6237 UNITED STATES Tax ID#:							
Transportation and Terms Carrier Code: FEDGRD Fedex Ground Collect Freight Terms: EXWorks:		Gross Weight (LB/KG): 26.0 / 11.8 0 Pallets 0 Cartons Bill of Lading: D6237245							
No. of Pkgs.	Specification of Commodities (Vendor Part #, Part Description, Customer part, part description, rev)	Sched B	CoO	Due Date	Quantity	UoM	Sales Order	Line	Qty BAL
	Contact: INGRID M Terms Desc: 1%10N30 Carrier: PSI ShipTo Name: PROPONENT MAIN WHSE Address: 3120 ENTERPRISE ST. City: BREA , CA 92821 BillTo Name: PROPONENT MAIN WHSE Address: 3120 ENTERPRISE ST. City: BREA , CA 92821 ORIGIN OF THE GOODS: USA 62AS568- 013 V75 GASKETS, WASHERS & OTHER AS568- 013 V75 Customer Part: AS568- 013 V75 PO: 556855- 00 20190101 TNBV46 9,182.0 20190101 VABV46 48,740.0 20190101 VAD1V46 5,382.0 Item Description: PACKING QC1, QC7, QC13 FORM QC- 101 PURCHASE PLANNER MANUFACTURE, PROCESS AND IDENTIFY COMPLETE PER B/P AND DOCUMENTS. NOTE: MATERIAL SHALL CONFORM TO ALL OF THE TECHNICAL AND QUALITY REQUIREMENTS OF THE LATEST REVISION OF THE FOLLOWING MATERIALS: MATL: RINGS, SEALING, FLUOROCARBON (FKM) RUBBER PER AMS 7276; HIGH- TEMPERATURE- FLUID RESISTANT LOW COMPRESSION SET, 70 TO 80	3926904500	US	02/25/19	63304.	EA	SA165050	1	

COFC ATTACHED

DS
575257

RECEIVED
FEB 26 2019
By

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PROPONENT
CALI

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PACK LIST

Vendor Freudenberg- NOK (Loc 62) International Seal Co., Inc. 2041 E. Wilshire Ave. Santa Ana, CA 92705 UNITED STATES Tax ID#: 95- 2975370- 00		Packing List: 62328912 Invoice: 62328912 Date: 02/25/19 Credit Terms: 1/10N30 1% 10 D N30 Supplier Code: 7343540602 Shipper ID/SID: 62328912							
Ship To PROPONENT MAIN WHSE 3120 E. ENTERPRISE STREET BREA, CA 92821 UNITED STATES Tax ID#:		Sold To 10921072 PROPONENT MAIN WHSE 3120 EAST ENTERPRISE ST BREA, CA 92821- 6237 UNITED STATES Tax ID#:							
Transportation and Terms Carrier Code: FEDGRD Fedex Ground Collect Freight Terms: EXWorks:		Gross Weight (LB/KG): 26.0 / 11.8 0 Pallets 0 Cartons Bill of Lading: D6237245							
No. of Pkgs.	Specification of Commodities (Vendor Part #, Part Description, Customer part, part description, rev)	Sched B	CoO	Due Date	Quantity	UoM	Sales Order	Line	Qty BAL
	MATL: RUBBER, FLUOROCARBON ELASTOMER, HIGH TEMPERATURE, FLUID AND COMPRESSION SET RESISTANT PER AMS- R- 83248 TYPE I, CLASS 1, 75 HARDNESS (REPLACES MIL- R- 83248 PER SPEC). PER MIL- R- 83248 NOTICE 2, AMS 7276 IS SUITABLE REPLACEMENT FOR TYPE I, CLASS 1 NOTE: AMS7280 IS OBSOLETE AND SUPERSEDED BY AMS7276 PER SPECIFICATION. KAPCO PURCHASE PLANNER REVISION LEVEL: 002 QC1, QC7, QC13 FORM QC- 101 PURCHASE PLANNER MANUFACTURE, PROCESS AND IDENTIFY COMPLETE PER B/P AND DOCUMENTS. NOTE: MATERIAL SHALL CONFORM TO ALL OF THE TECHNICAL AND QUALITY REQUIREMENTS OF THE LATEST REVISION OF THE FOLLOWING MATERIALS: MATL: RINGS, SEALING, FLUOROCARBON (FKM) RUBBER PER AMS 7276; HIGH- TEMPERATURE- FLUID RESISTANT LOW COMPRESSION SET, 70 TO 80 MATL: RUBBER, FLUOROCARBON ELASTOMER, HIGH TEMPERATURE, FLUID AND COMPRESSION SET RESISTANT PER AMS- R- 83248 TYPE I, CLASS 1, 75 HARDNESS (REPLACES MIL- R- 83248 PER SPEC). PER MIL- R- 83248 NOTICE 2, AMS 7276 IS SUITABLE REPLACEMENT FOR TYPE I, CLASS 1 NOTE: AMS7280 IS OBSOLETE AND SUPERSEDED BY AMS7276 PER SPECIFICATION. KAPCO PURCHASE PLANNER REVISION LEVEL: 002								



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PARCO, INC.
1801 S. Archibald Ave.
Ontario, California 91761
(909) 947-2200 Fax (909) 923-0288

PACKING LIST 87173

Ship
To

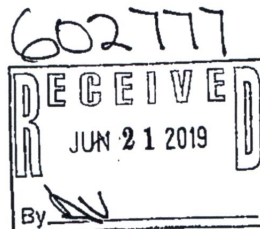
PROPONENT
3120 E. ENTERPRISE ST.
BREA CA 92821

Bill
To

PROPONENT
3120 E ENTERPRISE ST
BREA CA 92821

Purchase Order 580353-00
Buyer COREY
Specification AMS P 83461
Certification Type AI
Sales Order 62314
Date Entered 05/01/19
Account 5486-01
Date Shipped 06/19/19
Ship Via FEDEX GROUND COL
Bill of Lading 00106815155038
No. of Cartons 1
Gross Weight (lbs.) 10

Line	Customer Part	Rev.	Part	Compound	Quantity	Batch	Date Cured	COO
01	M83461/1-146	C	0568-146	4367-70	2.875	64231	2Q 19	US
	O-RING (DIV 57)			NET WEIGHT	9.48 LBS.			
	75-DUROMETER							



Remarks:

SHIPPING: DO NOT UNDERSHIP, -0/+15%
QUAL CLERK MERCURY FREE CERT REQ

SHIPPING: CURE DATE MAY NOT BE MORE THAN
12 QUARTERS OLD.

SHIPPING: FEDEX 090022016
QC CLERK: COO AND SHELF LIFE REQ ON CERT
SHIPPING: CALL CSR IF MORE THAN 5 BOXES
TOTTALLING OVER 100LBS

MATERIAL CERTIFICATION

See Separate Certification

Packed By
NS

Shipped By
OO

Approved By
OO

ICN: 602777, Doc Date: 6/26/2019 CERTIFIED TRUE COPY



PARCO, INC.
1801 S. Archibald Avenue
Ontario, California 91761
(909) 947-2200 Fax (909) 923-0288

MATERIAL CERTIFICATION

Type AI No. 35941

Account Name	PROPONENT	Account No.	5486-01
Purchase Order	580353-00	Sales Order	62314-01
Customer Part	M83461/1-146 REV. C	Parco Part	0568-146
Material Specification	AMS P 83461 REV. NC	Compound	4367-70
Product	O-RING	Shipping Order	49221
Elastomer	NITRILE	Date Prepared	6/19/2019
Color	BLACK	Prepared By	C. JUSTICE
Quantity Shipped	2,875		

I certify the following about the parts described above:

1. Parco manufactured the parts as follows: Batch 64231 Date Cured 2Q 19.
2. Quality conformance tests were performed on M83461/1-214 O-rings or standard hardness discs as required by paragraphs 4.4.2 and 4.4.5 of specifications MIL-P-83461B (Amendment 3) and AMS-P-83461, Rev. None. The following shows conformance to those requirements.

Physical Property	Requirement	Result	ASTM Test Method
Batch			
Original physical properties:			
Hardness, Shore A	70 to 80	78	D2240
Specific gravity	1.22 to 1.26	1.25	D297
Tensile strength, psi	1350 to 1984	1769	D1414
Ultimate elongation, pct.	125 to 180	140	D1414
Modulus at 100 pct. elongation, psi, min.	650	995	D1414
Temperature retraction, TR-10, °F, max.	-49	-56	D1329
Fluid Aging, ARM 201 (AMS 3020):			Para.
70 hours at 135°C (275°F)			4.6.2
Compression Set,			
pct. of original deflection, max.	35	11	
Temperature retraction, TR-10, °F, max.	-49	-53	
Hardness change, pts., Shore A	-10 to 5	-5	
Volume change, pct.	10 to 20	13	
Compression set,			D395
70 hours at 135°C (275°F)			Method B
pct. of original deflection, max.	67	54	D1414



3. Parco compound 4367-70 is listed on PRI-QPL-AMS-P-83461, letter dated August 27, 2018.
4. Per SAE AS5316, the shelf life of these parts is 15 years from cure date when packaged and stored in accordance with that standard.

Supplemental Information: SHELF LIFE 15 YEARS, COUNTRY OF ORIGIN USA.

ICN: 602777, Doc Date: 6/26/2019 CERTIFIED TRUE COPY

Michael Young, Quality Manager

Distribution: copy to customer.
FORM 2493 Rev. 12/18



PARCO, INC.
1801 S. Archibald Avenue
Ontario, California 91761
(909) 947-2200 Fax (909) 923-0288

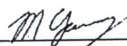
Certificate of Freedom from
Mercury Contamination
No. 16172

Account Name	PROPONENT	Account No.	5486-01
Purchase Order	580353-00	Sales Order	62314-01
Customer Part	M83461/1-146 REV. C	Parco Part	0568-146
Elastomer	NITRILE	Compound	4367-70
Shipping Order	49221	Date Prepared	6/19/2019
Quantity Shipped	2,875	Prepared By	C. JUSTICE

<u>Batch</u>	<u>Date Cured</u>
64231	2Q 19

1. Parco has assured that all mercury-bearing instruments, apparatus and equipment are enclosed in a double boundary of containment. Parco does not handle mercury or its compounds anywhere in the manufacturing plant.
2. The product above is free from mercury contamination.




Michael Young, Quality Manager

Distribution: 2 copies to customer
Rev. 01/09

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INTERNATIONAL SEAL

Virgil O. Harris
Proponent
3120 E. Enterprise St.
Brea, CA. 92821
Email: vharris@proponent.com

Subject: M83248/1-*** Rev: A (As referenced in AS83248/1 Rev: A)
Re: Certification of Compliance to Drawing Requirements

Please be advised that International Seal-FNGP Simrit part number AS568-*** V75 Rev: D meets the dimensional requirements and procurement specification (referenced material specification) for the subject drawing.

Note: asterisk *** refers to the entire range of listed part number standard sizes on the subject drawing.

This letter, in conjunction with the referenced manufacturing certification, indicates compliance of our certified part number and the referenced procured customer part number.

In order for this certification to be valid the data box below must be complete for the procured customer part number.

Please contact me if you have any questions.

Customer Part Number:	M83248/1-013
Manufacturer's Batch Number:	VABV46
Proponent Lot Number:	575257-02
Certification Date:	02-28-19

Sincerely,
Gerardo Montano
Gerardo Montano
Quality Manager
International Seal - Freudenberg-NOK Sealing Technologies

cc: Sean Morgan



Certified True Copy
PROPOONENT

2041 East Wilshire Ave.
Santa Ana, CA 92705

Phone: (714) 834-0602
Fax: (714) 834-0590