

PRODUCT CHANGE NOTICE

PCN Number: 2025-CIR-05

Issue Date: May 12th, 2026

PCN Type:

☒ Product/Process Change

☐ Discontinued Product

Part Number(s) Affected:

See Sheet 2

Description of the Change:

Sealant DC-730 RTV replaced by the DC-748

Reason for the Change:

Dear Valued Customer,

Due to obsolescence of **DOWSIL 730 (DC-730) RTV** it will be replaced with **DOWSIL 748 (DC-748) RTV**.

Environmental performance risk should be evaluated using your own risk evaluation system. If desired, Smiths Interconnect can perform validation testing at the customer’s expense.

If you have any questions or concerns, please reach out to Smiths Interconnect Sales.

Thank you,

Effective Date:

May 12th, 2026

Availability of New Samples:

Not Applicable

For more information contact:

Kyle Gobble

Product Line Manager

Defense/Space/Aerospace Connectors



kyle.gobble@smithsinterconnect.com

PRODUCT CHANGE NOTICE

Part Numbers Affected:

116432-3114	013717-3119
013717-3918	126731-4000
016431-3377	116431-5039-M0-5-A
116432-3116	117931-3048
116432-3110	116232-3103
013512-2000	116632-3001
016400-2009	116432-3111
379900-4001	016432-3062
116631-3000	116431-3767
116431-3978	116631-3040
013612-2000	117031-3091
029912-3038	116231-3354
116431-5041-M0-5-A	126231-4007
116431-3336	126231-4006
116431-3339	126331-4002
116431-3339-M0-0-A	116432-3492
116431-3568	126331-4003
116431-5040-M0-5-A	117932-3000
116431-3860	116432-3310
116431-3862	133-0468-000
116431-3919	016231-3030
116431-3921	013700-4000
116431-3946	136432-3112
117931-3049	



Technical Data Sheet

DOWSIL™ 730 FS Solvent Resistant Sealant

FEATURES

- One-component fluorosilicone adhesive/sealant
- Cures at room temperature when exposed to moisture in the air
- Acetoxy cure system
- Non-sag, paste consistency
- Easy to apply
- Cures to a tough, flexible rubber
- Good adhesion to many substrates
- Stable and flexible from -65°C (-85°F) to 260°C (500°F)
- Retains its properties under exposure to fuels, oils and solvents

Solvent resistant silicone adhesive/sealant

APPLICATIONS

- For bonding and sealing applications where resistance to the swelling effects of fuels, solvents and oils is required.
- For assembling and/or repairing of fuel systems and tanks.
- Used for formed-in-place gaskets where irregular shapes and harsh conditions reject ordinary seals.
- For bonding or sealing of components exposed to moisture, vibration, shock, fuels, solvents and oils for long periods of time.

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications.

CTM*	ASTM*	Property	Unit	Result
0176		As supplied Appearance		Non-slump paste White
0364		Colors		
0098		Extrusion rate ¹	g/minute	321
0095		Skin-over time	minutes	12
		Tack-free time	minutes	14

Mechanical properties, cured 7 days in air at 23°C (73°F) and 50% relative humidity

0022	D792	Specific gravity		1.44
0099	D2240	Durometer hardness, Shore A		40
0137A	D412	Tensile strength	MPa(psi)	3.0(434)
0137A	D412	Elongation at break	%	195
0159A	D624	Tear strength – die B	kN/m(ppi)	11.9(68)
		Brittle point	°C	-65
			°F	-85
0293		Peel strength, aluminum, primed	kN/m(ppi)	6.8(39)

Electrical properties, after 7 days cure in air at 25°C (77°F) and 50% relative humidity

0171		Arc resistance	seconds	124
0114	D149	Dielectric strength	volts/mil	372
0112	D150	Dielectric constant at 100Hz		7.11
0112	D150	Dissipation factor at 100kHz		0.007
0112	D150	Volume resistivity	Ohm.cm	5.1x10 ¹³

* CTM: Corporate Test Method, copies of CTMs are available on request.

ASTM: American Society for Testing and Materials.

¹Extrusion rate: 3.2mm orifice at 0.62 MPa., 1/8" orifice at 90 psi.

DESCRIPTION

DOWSIL™ 730 FS Solvent

Resistant Sealant is a ready-to-use, solventless, nonslumping fluorosilicone rubber paste that reacts with moisture in the air to form a tough, rubbery solid. It is a fluid-resistant material that is ideally suited for use in many applications where resistance to fumes, splash, and sometimes even total immersion in fuels, oils and solvents is needed.

DOWSIL 730 FS Solvent Resistant Sealant features good resistance to weathering, vibration moisture, ozone, and temperature extremes. It retains its flexibility over a wide temperature.

DOWSIL 730 FS Solvent Resistant Sealant can be applied overhead or on vertical surfaces without fear of sagging, slumping or running off.

USES

DOWSIL 730 FS Solvent Resistant Sealant is used primarily for bonding, sealing and caulking applications where resistance to the swelling effects of fuels, oils and solvents is needed. Other potential applications include:

- Sealing seams on various liquid storage tanks
- Sealing fuel lines and tanks
- Providing temporary patch for rubber linings
- Sealing pipe joints on lines carrying solvents
- Providing formed-in-place gaskets for sealing chemical compressors
- Providing formed-in-place gaskets where irregular shapes and harsh conditions reject ordinary seals
- Bonding or sealing components exposed to moisture, vibration, shock, certain fuels, oils and solvents for long periods of time

HOW TO USE

Substrate preparation

All surfaces must be clean and dry. Degrease and wash off any contaminants that could impair adhesion. Suitable solvents include isopropyl alcohol, acetone or methyl ethyl ketone.

Unprimed adhesion may be obtained on many substrates such as glass, metals and many common engineering plastics. Substrates to which good adhesion is normally not obtained include PTFE, polyethylene, polypropylene and related materials.

For maximum adhesion, the use of DOWSIL™ 1200 OS Primer is recommended. After solvent cleaning, a thin coat of DOWSIL 1200 OS Primer is applied by dipping, brushing or spraying. Allow primer to dry for 15 to 90 minutes at room temperature and a relative humidity of 50% or higher.

How to apply

Apply DOWSIL 730 FS Solvent Resistant Sealant to one of the prepared surfaces then quickly cover with the other substrate to be bonded.

On exposure to moisture, the freshly applied material will "skin-over" in about 12 minutes at room temperature and 50% relative humidity. Any tooling should be completed before this skin forms. The surface is easily tooled with a spatula. The adhesive/sealant will be tack-free in about 14 minutes.

Cure time

After skin formation, cure continues inward from the surface. In 24 hours (at room temperature and 50% relative humidity) DOWSIL 730 FS Solvent Resistant Sealant will cure to a depth of about 3mm. Very deep sections, especially when access to atmospheric moisture is restricted, will take longer to cure completely. Cure time is extended at over humidity levels.

Before handling and packaging bonded components, users are advised to wait a sufficiently long time to ensure that the integrity of the adhesive seal is not affected. This will depend on many factors and should be determined by the user for each specific application.

Compatibility

DOWSIL 730 FS Solvent Resistant Sealant releases a small amount of acetic acid during cure. This may cause corrosion on some metallic parts or substrates, especially in direct contact or when the cure is carried out in a totally enclosed configuration which would not allow cure by-products to escape.

**HANDLING
PRECAUTIONS
PRODUCT SAFETY
INFORMATION REQUIRED FOR
SAFE USE IS NOT INCLUDED IN
THIS DOCUMENT. BEFORE
HANDLING, READ PRODUCT
AND SAFETY DATA SHEETS
AND CONTAINER LABELS FOR
SAFE USE, PHYSICAL AND
HEALTH HAZARD
INFORMATION. THE SAFETY
DATA SHEET IS AVAILABLE ON
THE DOW WEBSITE AT
WWW.CONSUMER.DOW.COM,
OR FROM YOUR DOW SALES
APPLICATION ENGINEER, OR
DISTRIBUTOR, OR BY CALLING
DOW CUSTOMER SERVICE.**

USABLE LIFE AND STORAGE

When stored at or below 32°C (90°F) in the original unopened containers, DOWSIL 730 FS Solvent Resistant Sealant has a usable life of 18 months from the date of production.

As DOWSIL 730 FS Solvent Resistant Sealant cures by reaction with moisture in air, keep the container tightly sealed when not in use. A plug of used material may form

Table I: Typical Fluid Resistance Values**These values are not intended for use in preparing specifications.**

Fluids	Volume Swell, %	Durometer Hardness, pts change
Methanol	1.4	-4
JP-5	2.5	-5
Diesel	1.5	-5
Isopropanol	1.7	-4
JP-8	3.1	-4
DOWSIL™ OS 20 Fluid	3.6	-2

DOWSIL 730 FS Solvent Resistant Sealant, cured 7 days before immersion, properties obtained after 7 days immersion at room temperature.

Table II: Typical Thermal Stability Properties for DOWSIL 730 FS Solvent Resistant Sealant**These values are not intended for use in preparing specifications.**

	Exposure Time (Days)				
	0	1	3	7	14
Tested at Room Temperature After Exposure at 300°F (149°C)					
Durometer hardness, Shore A, points	43	44	45	45	47
Tensile strength, Mpa (psi)	2.99 (434)	3.38 (490)	3.14 (456)	3.03 (439)	2.98 (432)
Elongation, percent	195	195	177	171	159
Tear strength, kN/m (ppi)	11.91 (68)	26.97 (154)	9.63 (55)	9.11 (52)	8.93 (51)
Tested at Room Temperature After Exposure at 400°F (204°C)					
Durometer hardness, Shore A, points	43	43	46	47	45
Tensile strength, Mps (psi)	2.99 (434)	3.03 (439)	2.65 (385)	2.62 (381)	2.25 (327)
Elongation, percent	195	173	140	138	128
Tear strength, kN/m, (ppi)	11.91 (68)	9.28 (53)	8.76 (50)	8.41 (48)	8.06 (46)

in the tip of a tube or cartridge during storage. This is easily removed and does not affect the remaining content.

PACKAGING INFORMATION

This product is available in standard industrial container sizes.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance

specialists available in each area.

For further information, please see our website, consumer.dow.com or consult your local Dow representative.

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[730, 90ML](#)

[730, 170ML](#)

[730, 90ML](#)

EN

This Datasheet is presented by
the manufacturer

DE

Dieses Datenblatt wird vom
Hersteller bereitgestellt

FR

Cette fiche technique est
présentée par le fabricant



Technical Data Sheet

DOWSIL™ 748 Non-Corrosive Sealant

One-component silicone rubber

Features & Benefits

- Can be used in corrosion-sensitive electrical and PCB system assemblies equipment with no adverse effect
- Easy handling
- UL listed
- Complies with FDA regulation CFR 177.2600 covering indirect food contact

Applications

- General-purpose bonding and sealing applications where low odor and noncorrosive properties are required

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Test ¹	Property	Unit	Result
As supplied²			
	Consistency		Non-slump paste
	Extrusion rate 1/8 inch nozzle at 90 psi	g/min	150
	Skin-over-time	min	15
	Tack-free-time	min	30
	Cure time, 1/8 inch	hours	36
	Full cure, 1/8 inch	days	7
	Corrosion properties		Noncorrosive
As cured – physical³			
	Physical form		Tough, rubbery solid
	Color		Off-white
	Specific gravity at 25°C		1.33
	Peel strength ⁴	ppi (kN/M)	25 (4.4)
ASTM D 2240	Durometer hardness, Shore A		35

1. ASTM: American Society for Testing and Materials
2. At 77°F (25°C) and 50% RH.
3. After 7 days at 77°F (25°C) and 50% RH.
4. 1/4-inch steel strip to aluminum.

Typical Properties (Cont.)

Test	Property	Unit	Result
ASTM D 412	Tensile strength	psi (MPa)	275
ASTM D 412	Elongation	%	350
As cured – electrical			
ASTM D 149	Dielectric strength	Volts per mil	475
ASTM D 257	Volume resistivity	Ohm•cm	7.7×10^{14}
ASTM D 150	Dielectric constant at 77°F (25°C)		
	at 100 Hz		3.30
	at 10 kHz		3.21
ASTM D 150	Dissipation factor at 77°F (25°C)		
	at 100 Hz		8.7×10^{-3}
	at 10 kHz		2.8×10^{-3}

Description

DOWSIL™ 748 Noncorrosive Sealant is a one-component, ready-to-use, nonslumping silicone material that reacts with moisture in the air to cure to a tough, rubbery solid. As a general purpose adhesive/sealant, it features:

- Compliance with FDA Regulation CFR 177.2600 covering indirect food contact
- A noncorrosive cure mechanism that produces no corrosive by-products; can be used in corrosion-sensitive electrical and PCB system assemblies equipment (on copper and other sensitive metals) with no adverse effect
- Easy handling with no mixing, heating or solvent hazards; easy repair by cutting away old material and replacing with fresh material
- A service-temperature range from -67 to 350°F (-55 to 177°C) for extended periods, and up to 400°F (204°C) for shorter times
- Resistance to harsh environments such as ozone, corona, moisture and weathering

Uses

DOWSIL 748 Noncorrosive Sealant is a durable, general-purpose sealant and adhesive for use in a wide range of bonding and sealing applications.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Authorizations

FDA Status

When fully cured and washed, DOWSIL 748 Noncorrosive Sealant meets the requirements of FDA regulation No. 21 CFR 177.2600, subject to end-user compliance with any applicable total extractives limitations.

UL Status

DOWSIL 748 Noncorrosive Sealant is recognized by Underwriters Laboratories Inc. for service to 105°C where elongation is not essential. It also meets UL 94 Flame class, 94 HB. UL File No. E 40195 (N).

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DOWSIL™ 748 Non-Corrosive Sealant

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How To Use

DOWSIL 748 Noncorrosive Sealant forms a bond to most clean surfaces of metals, glass, silicone or organic resins, and vulcanized silicone rubber. A primer is recommended on some plastics such as acrylic; use DOWSIL™ 1205 Prime Coat.

Application

Apply DOWSIL 748 Noncorrosive Sealant to the prepared surface in a uniform thickness. If this adhesive/sealant is to be used between two surfaces, apply to one surface and allow it to establish uniform contact before putting the other surface in place. When placing the second surface, use enough pressure to displace the adhesive/sealant.

Best adhesion is obtained with a 15 mil thick glue line; metal-to-metal bonds should not overlap more than one inch.

Let the unit stand undisturbed at room temperature until it cures sufficiently. The odor given off during cure is due to the liberation of an alcohol. The odor will disappear when the cure is complete.

Tack-Free Time and Tooling

On exposure to moisture in the air, the surface of DOWSIL 748 Noncorrosive Sealant will skin over in about 15 minutes at room temperature with 50 percent relative humidity. Any tooling should be completed before this skin forms. The surface is easily tooled with a spatula and will be tack free in less than 30 minutes.

Cure Time

Curing continues inward from the surface. In 24 hours (at room temperature and about 50 percent relative humidity), DOWSIL 748 Noncorrosive Sealant will cure to a depth of 75 mils. In 72 hours, it will cure to about a 1/4-inch thickness with a Durometer hardness of about 20. Sections 1/2-inch deep can take up to two weeks for complete cure.

The relative humidity must be at least 20 percent to effect cure in the times stated. Less moisture will extend the cure time.

If both bonded members are impermeable to moisture, as in the case of two metal plates, cure time will depend on the thickness of DOWSIL 748 Noncorrosive Sealant and the area under the joint. The larger the unexposed bond area, the longer the cure time required. For shorter cure time and maximum bond strength, keep the area enclosed by a joint to a minimum. For best results, a metal-to-metal bond should not overlap more than one inch.

Usable Life and Storage

When stored at or below 90°F (32°C), DOWSIL 748 Noncorrosive Sealant has a shelf life of 24 months from date of manufacture.

Since this material cures by reaction with moisture in the air, keep the container tightly sealed when not in use. A plug of cured material may form in the tip of the tube during storage, but is easily removed and does not affect the remaining contents.

Shipping Limitations

None.

**Packaging
Information**

DOWSIL 748 Noncorrosive Sealant is supplied in 3 fl oz (90 mL) tubes, 10.7 fl oz (316 mL) cartridges and 4.5 gal (17 L) pails.

**Handling
Precautions**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

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Environmental
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