



What's New In Coatings?

**National Shipbuilding Research Panel, Surface Preparation and Coatings Meeting –
28 July 2026**

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Technical Warrant Holder, Coatings and Corrosion Control – Ships

July 20, 2026
Distribution A – Approved for Public Release



OBJECTIVES

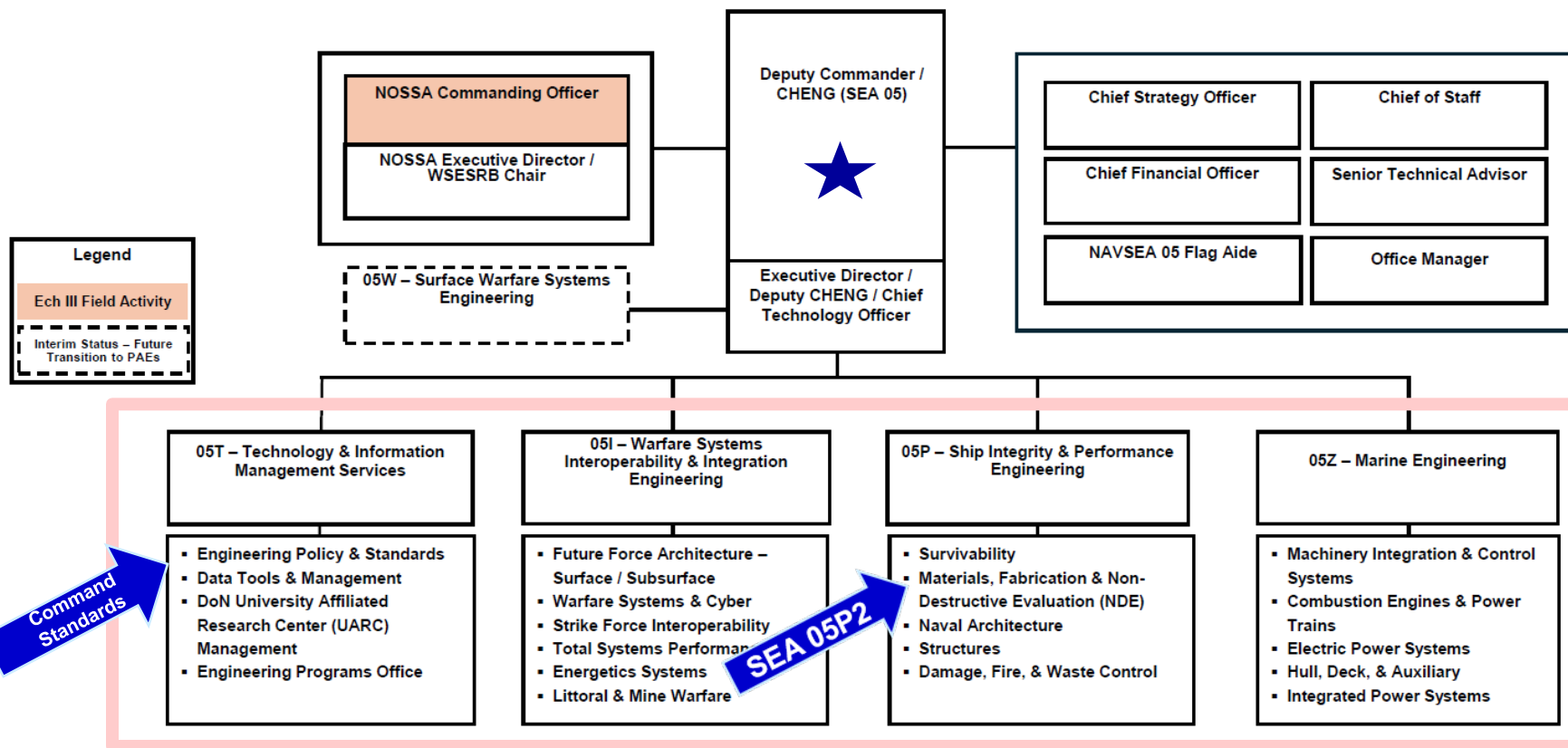
- Summarize evolving Naval Sea Systems Command (NAVSEA) organization and coatings requirements team:
 - Headquarters NAVSEA organization & objectives.
- Summarize what's new in NAVSEA coatings and maintenance cost reduction requirements and strategies:
 - Surface ship corrosion-control initiative.
 - Developing requirements to support leadership efforts to address topside corrosion in rapid-response mode.
 - Published FY-28, Change 1, update to Standard Item 009-032 that implements Paint Center of Excellence (PCOE) initiatives.
 - Published Amendment 1 to MIL-PRF-24596 that includes enhanced requirements for mold control additives.
 - Publishing updated MIL-PRF-16173F that includes a new Grade 8 for persistent, corrosion-preventative compounds.
 - Published FY-28, Change 1, update to Standard Item 009-124 on Thermal spray nonskid.
 - Addressing ongoing issues with MIL-PRF-22262C aluminum oxide qualification.



Summarize opportunities to qualify coatings and materials to support NAVSEA.

Naval Systems Engineering Directorate (SEA 05)

Draft: June 2026



Chief System Engineers and Ship Design Managers: No longer SEA 05 “Blue Box.”

Technical Domain Managers: Reorganized “Red Box” remains in SEA 05.

Changes to SEA 05 organization evolving.

Technical Authority Pyramid - Coatings & Corrosion Control

Draft: Jul 2026

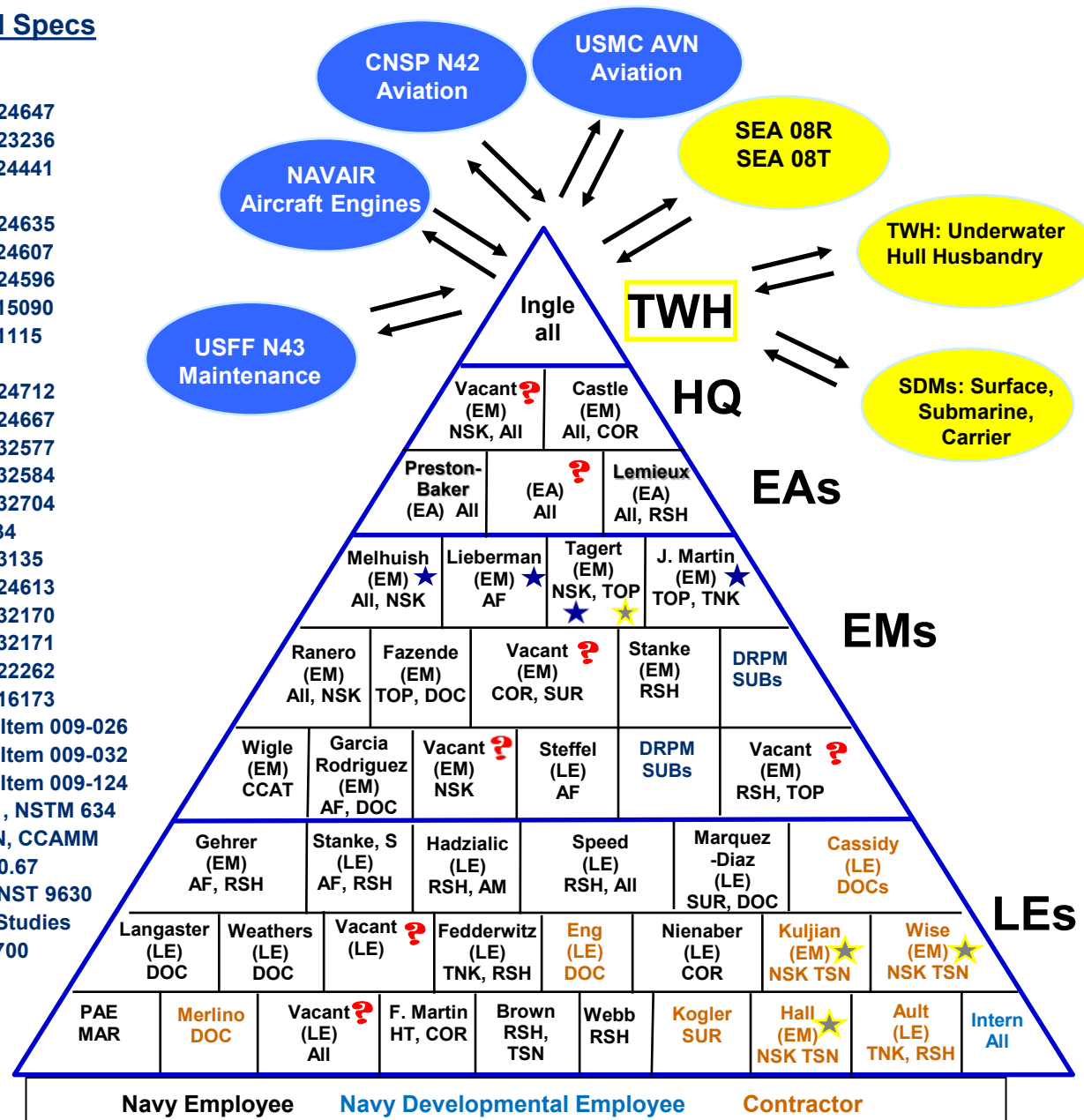
Code	Product	Related Specs
All	All Technical Products, Managerial	All
AM	Additive Manufacturing	Multiple
AF	Antifouling Coating Systems	MIL-PRF-24647
TNK	Tank Coatings, Epoxy Primers	MIL-PRF-23236 MIL-DTL-24441
PRM	Primers, Single Component	TT-P-645
TOP	Topside, Alkyds & Polysiloxanes	MIL-PRF-24635
INT	Interior Coatings (SEA 08)	MIL-DTL-24607 MIL-PRF-24596 MIL-DTL-15090 MIL-DTL-1115
HT	High Temp Coatings, Metallic	TT-P-28
PWD	Powder, Interior, Cosmetic	MIL-PRF-24712
NSK	Nonskid	MIL-PRF-24667
TSN	Thermal Spray Nonskid	MIL-PRF-32577
DCK	Deck Coverings	MIL-PRF-32584 MIL-PRF-32704 MIL-D-3134 MIL-PRF-3135 MIL-PRF-24613 MIL-PRF-32170 MIL-PRF-32171
SUR	Abrasive blasting, surface prep	MIL-PRF-22262
SEL	Sealants & Preservatives	MIL-PRF-16173
DOC	Policy Documents	Standard Item 009-026 Standard Item 009-032 Standard Item 009-124 NSTM 631, NSTM 634 S636-MAN, CCAMM DODI 5000.67 NAVSEAINST 9630
COR	Corrosion, PCOE	Reports, Studies
RSH	Research & Development	40 CFR 1700
UNDS	Regulations, Underwater hull	
TOTAL: 109 documents		



Delegated signature authority



NAVSEA-approved Technical Representative



NAVSEA Strategic Framework

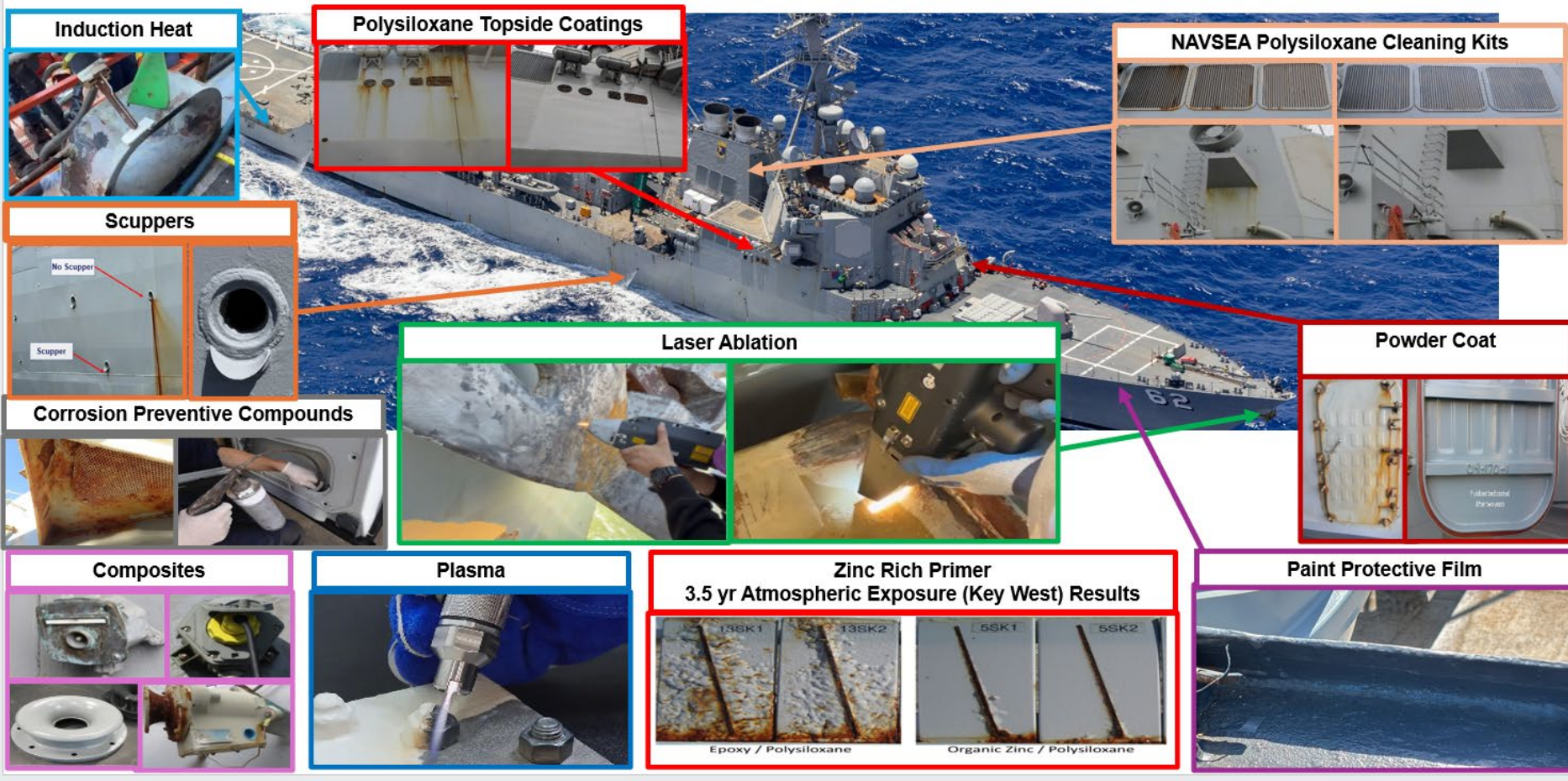
- 12 Mar 2026, U.S. Navy established five Direct Reporting Program Manager (DRPM) and Portfolio Acquisition Executives (PAEs) as follows:
 - DRPM Submarines and PAE Undersea
 - PAE Maritime
 - PAE Marine Corps
 - PAE / DRPM Strategic Systems Programs
 - PAE Industrial Operations



Major revision to NAVSEA organization in progress.

Surface Ship Corrosion Control

- Multiple opportunities for technical community to interact with NAVSEA to enhance surface ship corrosion control under new contracts.

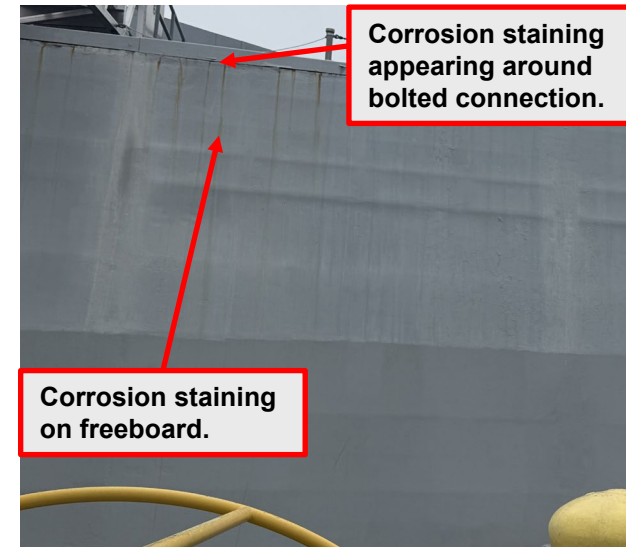


SEA 05P2 seeking input from technical community.

Leadership Challenge – Reduce Corrosion on Surface Ships

ISSUE: Some ships have deck-edge cover plates bolted to structure and “running rust” appears to be emanating from bolted connection at deck edge.

- Running rust from these areas stains the lower portion of the freeboard.
- Ship’s force cannot remove deck plates. The following process goal is to retard corrosion without deck plate disassembly.



RESULT: Recommended new procedure to address corrosion in bolted deck edge assembly that creates “running rust” emanating from bolted joint.

DECK EDGE CORROSION PREVENTATIVE COMPOUND APPLICATION PROCEDURE

1. CLEAN AREAS TO REMOVE CORROSION STAINING AND LOOSE COATING.

- Utilize NAVSEA cleaning kits NSN: 7930-01-660-1605,
T-NICN: IH-M-3649-LL-HOB-0726
MFR ID: 7920-00-LAB-0001
- Remove corrosion straining from deck edge starting at deck and progressing vertically down to the boot top. Use wash/scrub pads to remove staining and locate source of running rust.
- As directed by the SUPERVISOR, remove excess water from deck edge joints using clean, dry air or clean, dry rags to soak up water.
Complete drying of the joint is NOT REQUIRED.

Leadership Challenge - Reduce Corrosion on Surface Ships

DECK EDGE CORROSION PREVENTATIVE COMPOUND APPLICATION PROCEDURE

2. RECOAT AREAS WITH DAMAGED COATINGS IN ACCORDANCE WITH NAVSEA STANDARD ITEM 009-032.

- As directed by the SUPERVISOR, conduct localized coating touch-up of deck edge in accordance with Table 2.
- Allow final MIL-PRF-24635, Type V/VI polysiloxane topcoat to cure for a minimum of 24 hours before application of Corrosion Preventative Compounds (CPC).

3. SPRAY APPLY CORROSION PREVENTATIVE COMPOUND INTO JOINT FORMED BY BOLTED CONNECTION.

- As directed by the SUPERVISOR, spray apply MIL-PRF-16173E, Class II, Grade 2 qualified (CPC) into the joint or crevice formed by the bolted connection and corroded areas.
- Different CPCs have different viscosity and the SUPERVISOR shall determine the amount of the specific CPC being used that needs to be spray applied into the joint.
The CPC application goal shall be to wet the accessible edges and interior of the joint with CPC while minimizing the amount of CPC that drips or flows onto the surrounding paint.
DO NOT spray or drip CPC into the sea.

- During the spray process, wipe off excess CPC using cleaning solvent on disposable rags. Two hours after CPC application is complete, return to the work site and wipe off excess CPC using cleaning solvent on disposable rags.

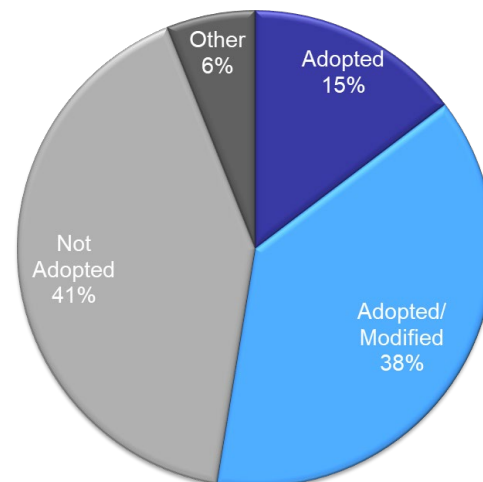


NAVSEA developing, and demonstrating procedures, in real time to support development of standard maintenance procedures in the future.

What's new with Standard Item 009-032?

- 23 – 27 Jun 2025, completed in-person, Standard Specifications for Ship Repair and Alteration Committee (SSRAC) meeting in Newport News, VA.
- 31 Mar 2026, Commander, Regional Maintenance Center published FY-28, Change 1, Standard Item 009-032.
- 79 total proposals addressed:
 - 9 Adopted
 - 30 Adopted/Modified
 - 35 Not Adopted
 - 5 Other (i.e., open action items and Technical Warrant Holder directed changes)

Hull/Preservation Subcommittee Action



RESULT: Update published with all changes vetted through established HQ-NAVSEA (i.e., SEA 04X, SEA 05D, SEA 05P, SEA 05PV, SEA 05U, SEA 05Z, PMS 321, PMS 421, and SEA 08) review process and all comments were incorporated.

Document update process and HQ-NAVSEA review to be streamlined in 2026.

What's new with Standard Item 009-032?

- “Top Five” updates to FY-28, Change 1, Standard Item 009-032:
 1. Updated Table 2, Lines 1A and 1B, and Table 5, Line 27 that provide an option to use the MIL-DTL-24441D, Type III qualified, Formula 159, zinc-rich coating on freeboard, topside, and Jet Blast Deflector (LBD) pits.
Zinc-rich coating retards undercutting and rust staining at defects or holidays.
 2. Updated Table One, Lines 3, 6, 18 and Lines 14, and 22 to define requirements for use of MIL-PRF-24647E qualified, Type IV, biocide-boosted, foul-release coatings on steel, aluminum, or GRP substrates for up to seven years of service.
Three coats of foul-release topcoat support up to seven years of service with two coats supporting up to two years of service.
 3. Updated, paragraph 3.1.16 to include a new clause addressing the streamlined waterfront process of applying two coats of interior topcoats to effectively cover or hide the substrate primer by adding the following:
“With the exception of MIL-PRF-24596, MIL-DTL-15090, and MIL-DTL-24607, when applying paint, multiple coats must be of contrasting colors, unless specifically stated in Tables One through 8.”



FY-28, Change 1, Standard Item 009-032 enhances coating corrosion-control performance, addresses Fleet needs, and reduces life-cycle maintenance costs.

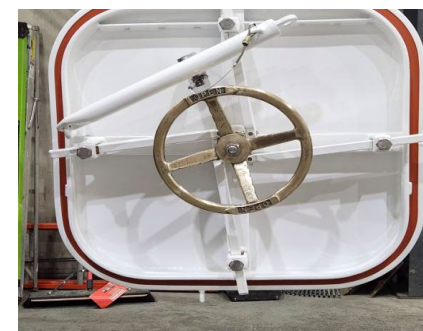
What's new with Standard Item 009-032?

- “Top Five” updates to FY-28, Change 1, Standard Item 009-032:

4. Updated Table 2, Lines 21-26 on deck coatings and added new Note (12), that also appears as Note (12) in the FY-28, Standard Item 009-026 on decking, as follows:

“Do not coat latex concrete installed in magazines and ammunition holds. For magazine and ammunition hold areas not covered with latex concrete, paint decks with the same gray epoxy system applied to the surrounding area. As directed by the SUPERVISOR, apply dark gray nonskid to magazine and ammunition hold decks. As directed by the SUPERVISOR, apply MIL-DTL-24441, Type IV, Formula 152 white epoxy to decks in magazines that contain saluting charges.”

5. Updated Table 2, Line 41 to expand the list of parts suitable for fluidized-bed powder coating by adding: ***“POWDER COATED AIRTIGHT DOORS, WATERTIGHT DOORS, HATCHES AND SCUTTLES: INTERIOR AND EXTERIOR”***



FY-28, Change 1, Standard Item 009-032 enhances coating corrosion-control performance, addresses Fleet needs, and reduces life-cycle maintenance costs.

Added Requirements for Zinc-Rich Primer:

Published, FY-28, Change 1, Standard Item 009-032 with New Lines for Zinc-rich Coatings

ISSUE: Zinc-rich epoxy primer coatings can provide sacrificial corrosion protection at pores/defects in the coating system and have proven effective at mitigating “running rust” in NRL testing.

WAY AHEAD: Leverage established, two-pack, epoxy-based, zinc-rich (i.e., > 85% zinc by weight) coating that does provide sacrificial corrosion protection of steel substrate. Requiring MIL-DTL-24441D, Type III, Formula 159 primer (i.e., the formula was first published in 1987 and then validated in 2023) that is already in use on hardware to create requirements for general topside coating system with zinc-rich primer in FY-28, Change 1, Standard Item 009-032 as follows:

TABLE 2 STEEL SURFACES SURFACE SHIPS	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E HORIZONTAL SURFACES DECKS & FITTINGS	F MASTS & STACKS EXPOSED TO GASES	G VERTICAL SURFACES
EXTERIOR SURFACES ABOVE BOOTTOP WITH EXCEPTION OF AREAS RECEIVING NONSKID & WELL DECK OVERHEAD AREAS SEE NOTES (2), (3), (33) & (70)	1	NEAR WHITE METAL BLAST, NACE 2/SSPC-SP 10 -OR- WATERJETTING TO NACE/SSPC-SP WJ-2/M -OR- SSPC-SP 10/M (WAB)NACE WAB-2/M	ONE COAT MIL-PRF-23236, TYPE V OR VI, CLASS 5 OR 7, 4 - 8 MILS -OR- ONE FULL COAT ANTICORROSIVE MIL-PRF-24647, TYPE I OR II, 5 - 7 MILS SEE NOTE (8)	ONE STRIPE COAT MIL-PRF-23236, TYPE V OR VI, CLASS 5 OR 7, 4 - 8 MILS/COAT -OR- ONE STRIPE COAT ANTICORROSIVE MIL-PRF-24647, TYPE I OR II, 5 - 7 MILS SEE NOTE (8)		ONE COAT DECK GRAY MIL-PRF-24635 TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 2, 5 - 8 MILS SEE NOTES (47), (64), & (86)	ONE COAT HAZE GRAY MIL-PRF-24635 TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 2, 5 - 8 MILS SEE NOTES (42), (64), (85), & (86)	ONE COAT HAZE GRAY MIL-PRF-24635 TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 2, 5 - 8 MILS PAINT DESIGNATIONS & MARKINGS MIL-PRF-24635 COMPOSITION 2, 5 - 8 MILS SEE NOTES (43), (47), (64), (85), & (86)
	1A	NEAR WHITE METAL BLAST, NACE 2/SSPC-SP 10 -OR- WATERJETTING TO NACE/SSPC-SP WJ-2/M -OR- SSPC-SP 10/M (WAB)NACE WAB-2/M	ONE COAT MIL-PRF-23236, TYPE V OR VI, CLASS 5 OR 7, 4 - 8 MILS -OR- ONE FULL COAT ANTICORROSIVE MIL-PRF-24647, TYPE I OR II, 5 - 7 MILS SEE NOTE (8)	ONE STRIPE COAT -- & -- ONE FULL COAT MIL-PRF-23236, TYPE V OR VI, CLASS 5 OR 7, 4 - 8 MILS/COAT SEE NOTE (8)		ONE COAT DECK GRAY MIL-PRF-24635 TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 1, 2 - 3 MILS SEE NOTES (42), (64), & (86)	ONE COAT HAZE GRAY MIL-PRF-24635 TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 1, 2 - 3 MILS -OR- MIL-PRF-24763, TYPE II OR III, CLASS 2, GRADE B, 2 - 4 MILS SEE NOTES (42), (64), (85), & (86)	ONE COAT HAZE GRAY MIL-PRF-24635 TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 1, 2 - 3 MILS -OR- MIL-PRF-24763, TYPE II OR III, CLASS 2, GRADE B, 2 - 4 MILS PAINT DESIGNATIONS & MARKINGS MIL-PRF-24635 COMPOSITION 1, 2 - 3 MILS SEE NOTES (43), (47), (64), (85), & (86)
	1B	NEAR WHITE METAL BLAST, NACE 2/SSPC-SP 10	ONE COAT MIL-DTL-24441, TYPE III, F159 ZINC RICH EPOXY PRIMER, 3-5 MILS DFT	ONE COAT MIL-PRF-23236, TYPE V OR VI, CLASS 5 OR 7, 4 - 8 MILS -OR- ONE FULL COAT ANTICORROSIVE MIL-PRF-24647, TYPE I OR II, 5 - 7 MILS		ONE COAT DECK GRAY MIL-PRF-24635, TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 2, 5 - 8 MILS SEE NOTES (47), (64), & (86)	ONE COAT HAZE GRAY MIL-PRF-24635, TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 2, 5 - 8 MILS SEE NOTES (42), (64), (85), & (86)	ONE COAT HAZE GRAY MIL-PRF-24635, TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 2, 5 - 8 MILS PAINT DESIGNATIONS & MARKINGS MIL-PRF-24635 COMPOSITION 2, 5 - 8 MILS SEE NOTES (43), (47), (64), (85), & (86)
	1C	NEAR WHITE METAL BLAST, NACE 2/SSPC-SP 10	ONE COAT MIL-DTL-24441, TYPE III, F159 ZINC RICH EPOXY PRIMER, 3-5 MILS DFT	ONE COAT MIL-PRF-23236, TYPE V OR VI, CLASS 5 OR 7, 4 - 8 MILS -OR- ONE FULL COAT ANTICORROSIVE MIL-PRF-24647, TYPE I OR II, 5 - 7 MILS		ONE COAT DECK GRAY MIL-PRF-24635, TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 1, 2 - 3 MILS SEE NOTES (47), (64), & (86)	ONE COAT HAZE GRAY MIL-PRF-24635, TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 1, 2 - 3 MILS SEE NOTES (42), (64), (85), & (86)	ONE COAT HAZE GRAY MIL-PRF-24635, TYPE V OR VI, CLASS 2, GRADE B OR C, COMPOSITION 1, 2 - 3 MILS PAINT DESIGNATIONS & MARKINGS MIL-PRF-24635 COMPOSITION 1, 2 - 3 MILS SEE NOTES (43), (47), (64), (85), & (86)

FY-28, Change 1, Standard Item 009-032, Includes new Table 2, Lines 1B and 1C, that require Formula 159, zinc-rich primer in Column “B PRIMER.”

Requires one coat of conventional epoxy over zinc rich primer in Column “C”.

Requires topcoat in Columns “E, F, and G” to use the high-performance polysiloxane coating systems.



Published MIL-PRF-24596C, with Amendment 1, for Interior Coatings: Updated Requirements for Interior Coatings to Control Mold Growth

ISSUE: MIL-PRF-24569C with Amendment 1, published on 12 Dec 2025 includes requirements to address Fleet customer needs for coatings to control mold growth in damp and/or humid interior spaces on ships.

- Requirements in original MIL-PRF-24596C did include mold resistance requirements:

“3.6.11 Resistance to growth of mold. When tested in accordance with 4.6.18, after 4 weeks, the test panels shall have a minimum ASTM D3274 rating of “8”.

4.6.18 Mold/mildew resistance. The coating shall be applied at the manufacturer’s maximum wet film thickness to three panels per test prepared in accordance with 4.5.1 under controlled laboratory conditions. The test shall be performed in accordance with ASTM D3273.”

(Note: An 8 rating corresponds to very little visible mold growth, <0.1% surface coverage.)

These qualified coatings still exhibited mold in wet or damp areas on ships.



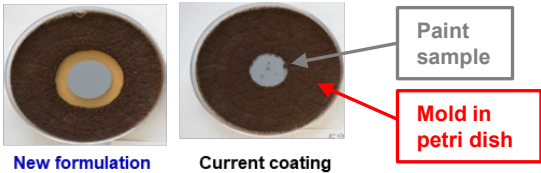
WAY AHEAD: Environmental Security Technology Certification Program (ESTCP) funded development and demonstration of interior, acrylic coating that contained commercially registered biocides to control mold and mildew growth (i.e., analogous to commercial “bathroom” paint).

- Formulate new demonstration coatings based on commercial, acrylic latex paints that contain EPA registered fungicides and mildewcides.
- Formula 25A and Class 2 coatings (i.e., submarine service) qualification requirements not altered (i.e., still requires an ASTM D3274 rating of 8 or 10).
- TT-C-492D published in May 2024 is for condensation control coating, so MIL-PRF-24596C with Amendment 1, cancels Class 4 for anticondensation coatings.

Published MIL-PRF-24596C, with Amendment 1, for Interior Coatings: Defined Requirements to Control Mold Growth on Interior Spaces

WAY AHEAD: ESTCP project successfully demonstrated new interior, acrylic coatings, and developed the performance requirements for MIL-PRF-24596C, with Amendment 1 Class 1, Grade A coatings that will better control mold and mildew growth:

- 3.6.11.2 High mold resistance (class 1, grade A coatings only). When tested in accordance with 4.6.18.2, after 6 weeks, the test panels shall have an ASTM D5590 rating of “0” and a zone of inhibition (ZOI) around the sample of 1 millimeter (0.04 inch) minimum.
- 4.6.18.2 High mold resistance (class 1, grade A coatings only). The test shall be performed in accordance with ASTM D5590. Results shall conform to the requirements of 3.6.11.2 .



RESULT: March 2023, demonstration coating with enhanced biocide package installed on magazine overhead with excellent performance after 5 months (i.e., and to date).



- The demonstration coating controlled mold growth on an in-service magazine.
- NAVSEA to use existing ESTCP project data to rapidly qualify interior, acrylic coatings to MIL-PRF-24596C, with Amendment 1, Class 1, Grade A.
- NAVSEA can provide Fleet customer with additional information about specific ESTCP demonstration coatings.

Publication of MIL-PRF-24596C, with Amendment 1, that includes requirements for interior, acrylic coatings with enhanced mold/mildew control performance, allows Fleet customers to rapidly procure and install such products.

Completed Update to MIL-PRF-24596C, with Amendment 1, for Industry

RESULT: 5 Feb 2026 NAVSEA 05S issued letter to industry partners with coatings on the MIL-PRF-24596C Qualified Products List (QPL) that explained requirements for updating QPL to the MIL-PRF-24596C, with Amendment 1, requirements as follows:

- Provide a complete MIL-PRF-24596C Conformance data set.
- Letter stating the qualified product is still manufactured using qualified materials and processes.
- Request for approval to conduct enhanced mold/mildew control performance testing in accordance with paragraph 3.11.6.2 and 4.6.18.2 qualification requirements.



DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
1333 ISAAC HULL AVE SE
WASHINGTON NAVY YARD DC 20376-0001

IN REPLY REFER TO:
4123
Ser 05S/044
February 5, 2026

SEE DISTRIBUTION LIST

SUBJECT: NOTIFICATION OF PUBLICATION OF MIL-PRF-24596C WITH AMENDMENT 1 INCORPORATED

This letter is to inform manufacturers of MIL-PRF-24596C products of the new specification revision, MIL-PRF-24596C w/AMD 1, "Coating Compounds, Nonflaming, Fire-Resistant". MIL-PRF-24596C w/AMD 1 is available in ASSIST at <https://quicksearch.dla.mil/> and may be obtained by using the "Document ID" search box and the keyword "24596".

Please review the updated product requirements in MIL-PRF-24596C w/AMD 1, in particular, note color, high mold resistance for class 1, grade A coatings, the addition of the class 5 government designation (Navy Formula 25), and the deletion of the class 4 government designation (Anti-condensation coating for surface ships only). Instructions on how to retain qualification for products on Qualified Products List QPL-24596 is indicated in the table below.

MIL-PRF-24596C Products	MIL-PRF-24596C w/AMD 1 Requalification Requirements
All qualified products	- Cover letter, requesting requalification to MIL-PRF-24596C w/AMD 1. Please include the new, full government designation for each of your products (e.g., class, grade, application). The cover letter must also confirm that your qualified products are still manufactured in the same facilities, using the same processes and raw materials, and that there have been no reported cases of adverse performance from Navy customers since originally qualified. - Latest conformance test data per Table IV of MIL-PRF-24596C w/AMD 1. Note, the last column on the table indicates which tests are required during conformance inspections on the first lot and every 19,000 liters (5,000 gallons) thereafter. - Active www.sam.gov Commercial and Government Entity (CAGE) codes for your mailing address and plant address(es). Please see enclosure (1) for instructions on how to update your SAM CAGE code registration(s).
Class 1, Grade A products only	- Items 1-3 above (for all qualified products) - Cover letter, requesting authorization to conduct the High Mold Resistance qualification testing on your MIL-PRF-24596C-qualified class 1, grade A products in accordance with MIL-PRF-24596C w/AMD 1. Please include the address of the test location you plan to conduct the High Mold Resistance test. This information can be added to the cover letter in Item #1. NOTE: Coating manufacturers must contact NAVSEA to validate performance of High Mold Resistance coatings. Please do not initiate the High Mold Resistance testing until the appropriate NAVSEA test authorization letter has been issued to you with instructions on how to conduct the testing and compile the results for updating product qualification.

NAVSEA informed coating manufacturers that updating their currently qualified coatings to the MIL-PRF-24596C, with Amendment 1, Class 1 QPL will require enhanced mold/mildew test data in accordance with paragraph 3.6.11.2.

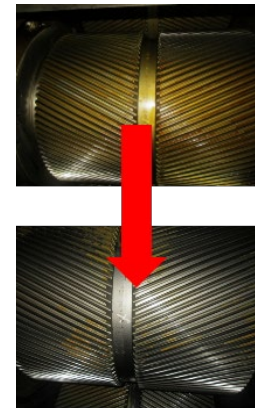
Completed Update to MIL-PRF-16173F for Publication

ISSUE: MIL-PRF-16173E(2), “Corrosion Preventive Compound, Solvent Cutback, Cold-Application” with interim amendments was last updated on 19 Oct 2017, included:

- Updated Volatile Organic Compounds (VOC) requirements in paragraph 3.4.2 to state:
 - VOC for Class I compounds shall exceed 2.8 lbs/gal (340 grams/liter).
 - VOC for Class II compounds shall not exceed 2.8 lbs/gal (340 grams/liter).
- Interim amendments require full specification update within two years.

WAY AHEAD: NAVSEA significantly updating MIL-PRF-16173F as part of a PCOE project to address the following issues:

- Instances where Navy has ordered material (i.e., MIL-PRF-16173E, Class I, Grade I) and received a product from one manufacturer that met operational requirements while at other times received the same Class/Grade product from a different manufacturer that **did not meet** their operational requirements.
- Update MIL-PRF-16173F based on classification system instead of current classification based on film removal characteristics.
- Replace obsolete tests like “shed” storage and eliminate archaic / redundant test methods (i.e., MIL-C-16173A published in 1953) by citing current ASTM test methods. Update the requirements for conformance testing.
- Add new technology products for long-term corrosion control performance without surface preparation (e.g., spray hydrophobic preservative or wax).



Completed Update to MIL-PRF-16173F for Publication

ISSUE: 22 Oct 2025, NAVSEA received government non-concurrence with 1 Aug 2025, version of MIL-PRF-16173F that adopted a Type/Class/Grade/Application organizational structure that had completed optional government / industry review and NAVSEA comment adjudication.

- Government requested changes revert to Class/Grade/Application format.
- Requested consistency in performance requirements for current Grade 1 – 5 qualified products.
- Discussed eliminating archaic material categories.

Original	Proposed draft April 2025	Planned final 2026	
MIL-PRF-16173E(2) Grade / Description	MIL-PRF-16173F Class	MIL-PRF-16173F Grade	MIL-PRF-16173F Grade Description
1 - Hard film	1	1	Hard film (<i>aligns with NATO Code Number C-632</i>)
2 - Soft film	4	2	Soft film, miscibility with lubricants required. (<i>aligns with NATO Code Number C-620</i>)
3 - Water displacing, soft film	-	3	Water displacing, soft film.
4 - Transparent, non-tacky film	-	4	Transparent, non-tacky film.
5 - Low pressure steam removable film	-	5	Low-pressure steam- or hot water-removable.
{2}*	5	6	Soft film, miscibility with lubricants when nominal heat resistance required (e.g. gear boxes).
{3}*	2	7	Water displacing, soft film for machinery, instruments, or parts.
---	9	8	Persistent, preservative compound
{1}*	3	---	Hard asphaltic film, mechanically removable (e.g., peel, scrape)
---	6	---	Penetrating for fasteners and crevices between faying surfaces.
{3}*	7	---	Water displacing, soft film, for outdoor or indoor storage.
{5}*	8	---	Low-pressure steam- or hot water-removable for outdoor or indoor storage.

- 2025 draft MIL-PRF-16173F subdivided MIL-PRF-16173E Grades. Some 2026 draft MIL-PRF-16173F, Grade 1 – 5 corrosion preventative compounds are currently qualified to the same Grade in MIL-PRF-16173E, with Amendment 2.

Completed Update to MIL-PRF-16173F for Publication

ISSUE: 6 May 2026, MIL-PRF-16173F “Corrosion Preventive Compound, Solvent Dispersed, Ambient Temperature Dried,” completed all government comment adjudication.

Class reverts to MIL-PRF-16173E, with Amendment 2, format defining requirements for VOCs.

Includes new low, VOC, Class III systems with less than 100 g/l or (0.8 pound per gallon).

NOTE: This draft, dated 28 April 2026, prepared by Naval Sea Systems Command, has not been approved and is subject to modification. DO NOT USE PRIOR TO APPROVAL. (Project 8030-2025-006)

ATTN: Per SEA 055, all updates to the document are required to be made in tracked changes. As such, the Track Changes function is enabled. Additionally, each change requires an adjacent comment balloon to be inserted after the change with an accurate and detailed justification for the change (select New Comment under the Review ribbon above). Please do not select large portions of text when inserting comment balloons.

INCH-POUND
MIL-PRF-16173F
DRAFT
SUPERSEDING
MIL-PRF-16173E(SH)
w/INT. AMENDMENT 2
19 October 2017
MIL-PRF-16173E
6 January 1993

PERFORMANCE SPECIFICATION
CORROSION PREVENTIVE COMPOUND, SOLVENT DISPERSED, AMBIENT TEMPERATURE DRIED

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers solvent-dispersed corrosion preventive compounds that are deposited as thin films and dried at ambient temperatures by solvent evaporation. These products are formulated to be removed by solvent, oil, or steam; or to provide persistent, long-term, corrosion-control performance on metallic substrates.

1.2 Classification. Corrosion preventive compounds covered by this specification are furnished in the following classes, grades, and applications, as specified (see 6.2).

1.2.1 Classes. The classes of corrosion preventive compounds are as follows:

a. Class I - A corrosion preventive compound having a Volatile Organic Compound (VOC) content greater than 3 pounds per gallon (340 grams per liter) and less than or equal to 4.6 pounds per gallon (550 grams per liter).

b. Class II - A corrosion preventive compound having a VOC content greater than 0.8 pound per gallon (100 grams per liter) and less than or equal to 2.8 pounds per gallon (340 grams per liter).

c. Class III - A corrosion preventive compound having a VOC content less than or equal to 0.8 pound per gallon (100 grams per liter).

1.2.2 Grades. The grades of corrosion preventive compounds are as follows (see 6.1):

a. Grade 1 - Temporary, hard film, solvent-removable compound for corrosion protection during outdoor storage and overseas shipping. NATO Code Number C-632 cites this specification to define performance requirements for this grade of corrosion preventative compounds.

b. Grade 2 - Temporary, soft film, solvent-removable compound for corrosion protection on equipment where miscibility with lubricants is required. NATO Code Number C-620 cites this specification to define performance requirements for this grade of corrosion preventative compounds.

c. Grade 3 - Temporary, water displacing, soft film, solvent-removable compound for corrosion protection during outdoor or indoor storage.

d. Grade 4 - Temporary, transparent, non-tacky film, solvent-removable compound for corrosion protection during outdoor or indoor storage.

e. Grade 5 - Temporary, low-pressure steam- or hot water-removable compound for corrosion protection during outdoor or indoor storage.

Comments, suggestions, or questions on this document should be addressed to Commander, Naval Sea Systems Command, ATTN: SEA 055, 1333 Isaac Hall Avenue, SE, Stop 5160, Washington Navy Yard, DC 20376-5160 or emailed to CommandStandards@navy.mil, with the subject line "Document Comment". Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <http://assist.dia.mil>

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Grade reverts to MIL-PRF-16173E, with Amendment 2, format defining requirements for the characteristics of the different corrosion preventative compounds

Performance requirements for Grade 1 – 5 similar to those for MIL-PRF-16173E, with Amendment 2, Grade 1 – 5 corrosion preventative compounds.

Government comments preferred MIL-PRF-16173E (2) organizational structure using Class, Grade, and adding Application instead of NAVSEA proposed Type, Class, and Grade to reduce administrative burden.

Completed Update to MIL-PRF-16173F for Publication

ISSUE: 6 May 2026, MIL-PRF-16173F “Corrosion Preventive Compound, Solvent Dispersed, Ambient Temperature Dried,” completed all government comment adjudication.

Applications that will include a putty with inert filler.

MIL-PRF-16173F
DRAFT DATED 28 April 2026

f. Grade 6 - Temporary, solvent-removable compound for corrosion protection during storage of equipment (e.g., gear boxes) where miscibility with lubricants and nominal heat resistance are required.

g. Grade 7 - Temporary, solvent-removable compound for corrosion protection during indoor storage of machinery, instruments, or parts.

h. Grade 8 - Persistent, preservative compound for corrosion protection of metals in outdoor or indoor environment.

1.2.3 Applications: The corrosion preventive compound applications are as follows:

a. Application A - For brush application.

b. Application B - For dip application.

c. Application C - For fill and drain application.

d. Application D - For spray application using spray equipment.

e. Application E - For spray application using a self-pressurized container.

f. Application F - For applications with inert filler(s) or binder(s).

1.3 Part or Identifying Number (PIN): PINs to be used for corrosion preventative compound acquired to this specification are created as follows:

M	16173	-	X	-	X	-	X	-	X
Prefix for Military Specification	Specification Number		Class		Grade		Application		Container Size
			(see code below)		(see code below)		(see code below)		(see code below)

2

Grade reverts to MIL-PRF-16173E, with Amendment 2, format defining requirements for the characteristics of the different corrosion preventative compounds

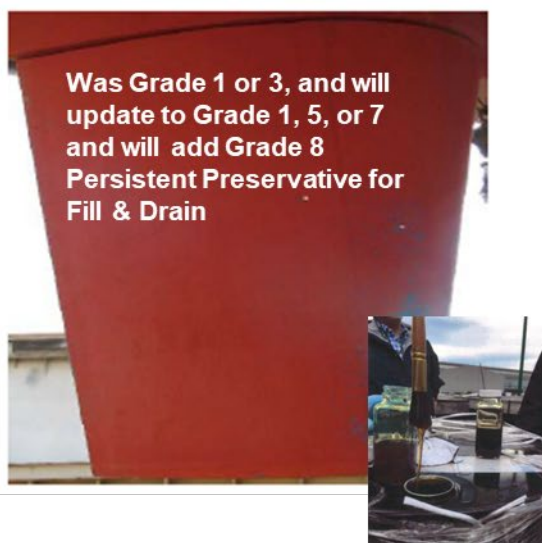
Performance requirements for Grade 1 – 5 similar to those for MIL-PRF-16173E, with Amendment 2, Grade 1 – 5 corrosion preventative compounds.

Government comments preferred MIL-PRF-16173E organizational structure using Class, Grade, and adding Application instead of NAVSEA proposed Type, Class, and Grade reduces administrative burden.

Completed Update to MIL-PRF-16173F for Publication

STATUS: NAVSEA obtained final government concurrence with the final version of MIL-PRF-16173F that includes Class, Grade, and Application requirements.

- Feb 2026, NAVSEA editing document to address government concerns.
- Mar 2026, NAVSEA releases final MIL-PRF-16173F that incorporates all comments.
- Apr 2026, All government agencies concur with adjudicated comments and final MIL-PRF-16173F.
- May 2026, Complete final compliance review.
- Jun 2026 Publish final document. MIL-PRF-16173F “Corrosion Preventive Compound, Solvent Cutback Cold-Application” completed all government comment adjudication.



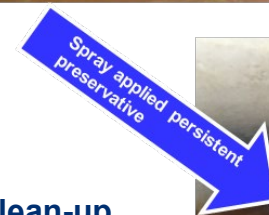
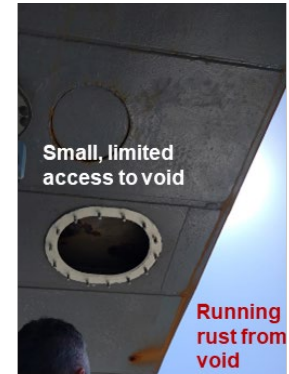
Government comments preferred MIL-PRF-16173E organizational structure using Class, Grade, and adding Application instead of NAVSEA proposed Type, Class, and Grade reduces administrative burden.

Opportunity for Application of future, Class 8 “Persistent” Preservatives

STATUS: Updated MIL-PRF-16173F specification includes new Class, Grade, and Application requirements, includes “Class 8, Persistent” corrosion-preventive compounds intended as supplement for coatings in spaces where coating installation and maintenance is impractical and corrosion is an issue.

Key technical considerations for use of “persistent” preservatives:

- Space or void where coatings are impractical to install that are analogous to interior of rudder or bilge keel, but more accessible to the environment or weather.
- Cosmetic appearance of waxy, oily coating will not be an issue. Translucent, amber preservative can attract dirt or dust.
- Thick, waxy material will not interfere with mechanical equipment operation.
- Runoff or release of preservative to the environment will not be significant.



TECHNICAL COMMUNITY INPUT NEEDED ON KEY ISSUES:

1. Define quality control requirements for acceptable, and unacceptable, preservative application process.
April 2024 - Shipyard demonstration still controlling corrosion.
2. Shipyard process validated UV light inspection, process controls, and clean-up.
3. Need to define applicable spaces and areas for preservatives, possible new SURFMEPP Design Memorandum.

Input needed to determine effective applications for MIL-PRF-16173F corrosion preventive compounds.

Leadership Challenge - Improve Overall Nonskid Performance

- Mar 2017 – Senior NAVSEA / NAVAIR leadership task Flight Deck Readiness Working Group (FDRWG) to improve all aspects of flight deck nonskid service life.
FDRWG includes:
 - SEA 05P2, NSWC-PD, NRL
 - SEA 21
 - Fleet Forces
 - NAVAIR technical community
 - Type Commander
 - USMC Aviation
- Nonskid must consistently achieve required service life while satisfying all MIL-PRF-24667D performance requirements.



FOD



What's New With Nonskid in Standard Item 009-032?

ISSUE: Published FY-28, Change 1, Standard Item 009-032 on 31 Mar 2026 that includes changes to address risk issues identified by Nonskid On-Site Representatives (OSRs) and that streamlines deck-plate production.

- **Streamlined production** by including an option in Table 2 to apply conventional, Composition G nonskid along with the previous requirement to apply low-density, Composition D nonskid on these ramps as follows:
“ONE COAT DARK GRAY, MIL-PRF-24667, TYPE V, COMP D *-OR- ONE COAT DARK GRAY, MIL-PRF-24667, TYPE V, COMP G*”.
- **Streamlined production** by allowing any nonskid primer to be used with any nonskid topcoat by updating Note (64) as follows:
“Primer coat(s) must be from the same manufacturer as the other coats in the system. *Any primer listed in the NAVSEA-reviewed ASTM F718 may be used when the primer from the same manufacturer is not available.*”
- **Avoided confusion** by updating requirements to clarify that a full QA/QC data set is required for small-scale touch-up by adding flight decks to paragraph 3.6.1.3 as follows: “For surface ship areas, except for potable, reserve feedwater, freshwater drain collecting tanks on nuclear powered surface ships *and all flight deck nonskid*, touch-up is defined within this Standard Item as . . . “

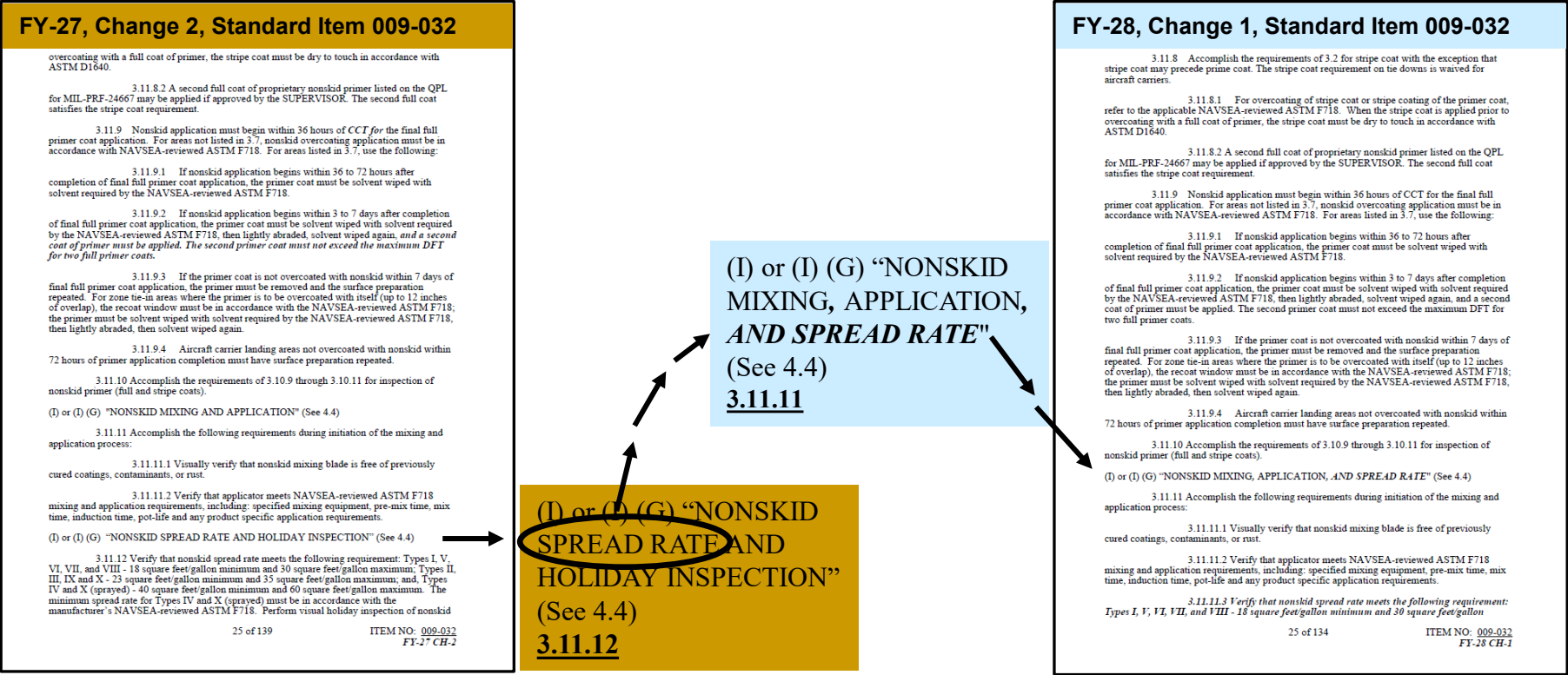


Published FY-28, Change 1, Standard Item 009-032

Updates When Spread Rate is Assessed During Nonskid Installation

ISSUE: Published FY-28, Change 1, Standard Item 009-032 on 6 Jun 2025 that moved the spread rate assessment process from the FY-27, Change 2, Standard Item 009-032, paragraph 3.11.12 to paragraph 3.11.11 as follows:

RESULT: Updated Paragraph 3.11.11 to assess Spread Rate while the nonskid is being installed as opposed to when the nonskid is examined for Holidays as follows:



Publication of FY-28, Change 1, Standard Item 009-032 mitigates risk of nonskid application spread rate deviating from requirements, reducing checking/cracking risk.

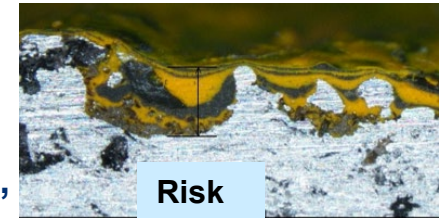


Published FY-28, Change 1, Standard Item 009-124

Includes Color Topping Removal Process for VLA Markings

ISSUE: FY-28, Change 1, Standard Item 009-124, published on 31 Mar 2026, includes requirements for removing Visual Landing Aid (VLA) markings to allow replacement during a major availability, without having to replace the underlying Thermal Spray Nonskid (TSN).

RESULT: Utilized iterative process demonstrated in FY-24, Standard Item 009-32, published on 25 Oct 2022 to remove conventional nonskid from from overlap area on TSN, but < ½ the waterjet operating pressure.



- Added new Note (7) to FY-28 Standard Item 009-124 that defines VLA marking removal requirements as follows:

“(7) As directed by the SUPERVISOR, remove VLA markings within TSN using High Pressure Waterjet Cleaning (HP WJ) with an initial operating pressure of 5,000 PSI. Increase HP WJ operating pressure by increments of up to 2,000 PSI until the HP WJ process begins to remove VLA markings without damage to the underlying TSN. Conduct six passes over the work zone at the operating pressure that removes VLA markings but does not damage the underlying TSN. HP WJ operating pressure must not exceed 14,000 PSI.



Publication of FY-28, Change 1, Standard Item 009-124 expands successful use of iterative water-jet-based process to refresh VLA markings, still seeking other processes.

Published FY-28, Change 1, Standard Item 009-124

Adds Requirements for Polysiloxane Nonskid

ISSUE: FY-28, Change 1, Standard Item 009-124 updated to include requirements for MIL-PRF-24667D polysiloxane nonskid to be cited to allow work planners to select these color stable nonskid systems.

Avoids current risk of cost-based material substitution.

RESULT: Created new Table 2, Lines 9A and 21A to specifically require polysiloxane nonskid for flight, hangar, and vertical replenishment decks as follows in Column E and new Note (44) as follows:

- MIL-PRF-24667D TYPE II, IV OR VI, COMP G, CLASS 2 (i.e., this is the color stable requirement for color stable nonskid), GRADE B, APP 1.

TABLE 2 STEEL SURFACES SURFACE SHIPS	LINE	A SURFACE PREPARATION	B PRIMER	C	D	E HORIZONTAL SURFACES DECKS & FITTINGS	F MASTS & STACKS EXPOSED TO GASES	G VERTICAL SURFACES
HANGAR DECKS, FLIGHT DECKS & VERTICAL REPLENISHMENT DECK AREAS SEE NOTE (75)	9	NEAR WHITE METAL BLAST, NACE 2/SSPC-SP 10 - OR - WATERJETTING TO NACE/SSPC-SP WJ-2/L - OR - SSPC-SP 10/L(WAB)/NACE WAB-2/L	ONE COAT PROPRIETARY NONSKID PRIMER LISTED ON THE QPL FOR MIL- PRF-24667 (OF TYPE TO MATCH COLUMN E)	STRIPE COAT OF PROPRIETARY NONSKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667		ONE COAT DARK GRAY, MIL- PRF-24667, TYPE V, COMP G SEE NOTES (19), (22), (50), (56), (59), (61), & (63)		
	9A	NEAR WHITE METAL BLAST, NACE 2/SSPC-SP 10 - OR - WATERJETTING TO NACE/SSPC-SP WJ-2/L - OR - SSPC-SP 10/L(WAB)/NACE WAB-2/L	ONE COAT PROPRIETARY NONSKID PRIMER LISTED ON THE QPL FOR MIL- PRF-24667 (OF TYPE TO MATCH COLUMN E) SEE NOTE (7)	ONE COAT PROPRIETARY NONSKID PRIMER LISTED ON THE QPL FOR MIL-PRF-24667 (OF TYPE TO MATCH COLUMN E) SEE NOTES (7) & (76)		ONE COAT DARK GRAY MIL- PRF-24667D TYPE I OR V, COMP G, CLASS 2, GRADE B, APPLICATION 1. - OR - ONE COAT DARK GRAY MIL- PRF-24667C, TYPE I OR V, COMP G. SEE NOTE (44)		

- New Note (44) addresses potential supply limitations as follows:
(44) Only when the MIL-PRF-24667D nonskid is not available should MIL-PRF-24667C nonskid be used with prior authorization by the SUPERVISOR.

New requirements will allow work planners to require polysiloxane nonskid without slowing production due to supply issues.



Published FY-28, Change 1, Standard Item 009-026 Clarifies Requirements for Decking in Magazines

ISSUE: FY-28, Change 1, Standard Item 009-026 to includes clarification of requirements for coating magazine decks to address multiple inquiries from regional maintenance centers.

- Since 2022, Standard Item 009-026 included terms “large” and “small” for magazines that were not clear to work planners. Work planners also did not know when magazines contained black powder, requiring the deck to be painted white.

RESULT: Adding new Table One, Line 21 to FY-28 Standard Item 009-026 for:

“MAGAZINE, WEAPON HANDLING AND CARGO AMMUNITION HOLDS AREA (BETWEEN UNIVERSAL TIEDOWN SYSTEM/ DUNNAGE TRACKS)

The new Table One, Line 21 cites a new Note (12) to that clarifies requirements for coating magazines as follows:

“(12) Do not coat latex concrete installed in magazines and ammunition holds. For magazine and ammunition hold areas not covered with latex concrete, paint decks with the same gray epoxy system applied to the surrounding area. As directed by the SUPERVISOR, apply dark gray nonskid to magazine and ammunition hold decks. As directed by the SUPERVISOR, apply MIL-DTL-24441, Type IV, Formula 152 white epoxy to decks in magazines that contain saluting charges.”

- Added same Note (12) to FY-28 Standard Item 009-032 to ensure consistent requirements for all tasks, regardless of which Standard Item is invoked.



Publication of FY-28, Change 1, Standard Item 009-026 clarifies magazine coating requirements and is consistent with Standard Item 009-032.

Published MIL-PRF-22262C, With Amendment 1, that Includes Requirements for Aluminum Oxide Media

ISSUE: 18 Apr 2025, Published Amendment 1 to MIL-PRF-22262C for abrasive blast media that includes requirements for aluminum oxide blast media and clarified beryllium requirements for Grade A media.

New Types of abrasive media to natural materials and by-product (slags), engineered, and manufactured materials.

New Grades of abrasive media with current limits on maximum allowable beryllium content and new lower limit on beryllium.

12 qualified Grade A crushed glass, slag, and garnet media

INCH-POUND
MIL-PRF-22262C(SH)
w/AMENDMENT 1
18 April 2025
SUPERSEDING
MIL-PRF-22262C(SH)
24 August 2023

PERFORMANCE SPECIFICATION
ABRASIVE BLASTING MEDIA, SHIP BLAST CLEANING

This specification is approved for use by the Naval Sea Systems Command and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers inorganic abrasive media used in the blast cleaning of metal surfaces, such as ship hulls and tanks, to remove corrosion, scale, old paint, and other foreign matter resulting in surfaces that are clean and suitable for painting. Examples of inorganic abrasive materials are minerals, recycled materials like crushed glass, by-products of metal or energy production such as slags, and engineered materials that are manufactured to serve as industrial abrasives.

1.2 Classification. Inorganic abrasive materials covered in this specification are of the following types, classes, and grades as specified (see 6.2).

1.2.1 Types.

- a. Type I – Naturally occurring minerals.
- b. Type II – By-product, engineered, and manufactured materials.

1.2.2 Classes.

- a. Class 1 – Glass abrasive material.
- b. Class 2 – Garnet abrasive material.
- c. Class 3 – Aluminum oxide abrasive material.
- d. Class 4 – Other metal oxide abrasive material.
- e. Class 5 – Metal silicate abrasive material.
- f. Class 6 – Silicon carbide abrasive material.
- g. Class 7 – Coal slag abrasive material.
- h. Class 8 – Other slag abrasive material.
- i. Class 9 – Blend of the above.

1.2.3 Grades.

- a. Grade A – Total beryllium content is not greater than 0.00001 percent by weight.
- b. Grade B – Total beryllium content is not greater than 0.0075 percent by weight.

Comments, suggestions, or questions on this document should be addressed to Commander, Naval Sea Systems Command, ATTN: SEA 055, 1333 Isaac Hull Avenue, SE, Stop 5160, Washington Navy Yard, DC 20376-5160 or emailed to CommandStandards@navy.mil, with the subject line "Document Comment". Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <https://assist.dla.mil>.

AMSC N/A FSC 5350

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New Classes of abrasive media to include the Class 3 aluminum oxide media required by Standard Item 009-124 thermal spray nonskid process.

No qualified media

New Classes of abrasive media to include the Class 4 “Other Metal Oxide” media of interest to shipyards.

Four qualified Grade B media



Published MIL-PRF-22262C, With Amendment 1, that Includes Requirements for Aluminum Oxide Media

WAY AHEAD: 18 Apr 2025, Published Amendment 1 to MIL-PRF-22262C to clarify that Grade A abrasive media will have either:

- A measured beryllium level less than 0.00001% by weight.
- or -
- A non-detect or below detection level of beryllium with a Lower Limit of Quantitation, reported limit, or minimum reported limit value of 0.00001% by weight.

3.2.2.1 Soluble and total metal content: When tested in accordance with 4.5.2.1, the soluble metal content and total metal content of the abrasive shall not exceed the values listed in [Table I](#) or in California Code of Regulations, Title 22, Division 4.5, Chapter 11, Article 3, Section 66261.24, (a)(1)(B).

Current analytical requirements

Current beryllium Grade requirements

Metal and its compounds	Soluble maximum (mg/L)	Total maximum (%WT)
Antimony	5	0.05
Arsenic	5	0.05
Barium (excluding barite)	100	1.00
Beryllium (grade A)	0.001	0.00001
Beryllium (grade B)	0.75	0.0075
Cadmium	1	0.01
Chromium (VI)	5	0.05
Chromium and chromium (III)	5	0.25
Cobalt	80	0.09

3
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3.2.2.1 Soluble and total metal content: When tested in accordance with 4.5.2.1, the soluble metal content and total metal content of the abrasive shall not exceed the values listed in [Table I](#) or in California Code of Regulations, Title 22, Division 4.5, Chapter 11, Article 3, Section 66261.24, (a)(1)(B).

Current analytical requirements

Current beryllium Grade requirements

Metal and its compounds	Soluble maximum (mg/L)	Total maximum (%WT)
Antimony	5	0.05
Arsenic	5	0.05
Barium (excluding barite)	100	1.00
Beryllium (grade A)	0.001	0.00001
Beryllium (grade B)	0.75	0.0075
Cadmium	1	0.01
Chromium (VI)	5	0.05
Chromium and chromium (III)	5	0.25
Cobalt	80	0.09

3
Source: <http://www.dhs.gov> - Downloaded: 2023-09-27 19:56Z
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TABLE I Metals content of abrasive material - Continued

Metal and its compounds	Soluble maximum (mg/L)	Total maximum (%WT)
Copper	25	0.25
Fluoride salts	180	1.80
Lead	1.0	0.01
Mercury	0.2	0.002
Molybdenum	35	0.35
Nickel	10	0.09
Selenium	1	0.01
Silver	5	0.05
Thallium	7	0.07
Vanadium	24	0.24
Zinc	10	0.10

NOTES:
1. Some of the metal limits specified in this specification are lower than required by the State of California Department of Health Services. Users may require lower metal limits as deemed necessary to comply with local environmental and occupational safety and health regulatory requirements.
2. The metal limits listed are maximum values and are not time-weighted averages. The airborne ceiling values in 29 CFR 1915 are different from the metal limits in the table.

3.2.2.2 Maximum concentration of contaminants: When evaluated in accordance with 4.5.2.2, the content of the abrasive material shall not exceed the values listed in [Table II](#) or in California Code of Regulations, Title 22, Division 4.5, Chapter 11, Article 3, Section 66261.24, (a)(1)(B) (see 4.5.2.2).

Current Table 2 notes that values are different from 29 CFR 1915 requirements

TABLE I Metals content of abrasive material - Continued

Metal and its compounds	Soluble maximum (mg/L)	Total maximum (%WT)
Copper	25	0.25
Fluoride salts	180	1.80
Lead	1.0	0.01
Mercury	0.2	0.002
Molybdenum	35	0.35
Nickel	10	0.09
Selenium	1	0.01
Silver	5	0.05
Thallium	7	0.07
Vanadium	24	0.24
Zinc	10	0.10

NOTES:
1. Some of the metal limits specified in this specification are lower than required by the State of California Department of Health Services. Users may require lower metal limits as deemed necessary to comply with local environmental and occupational safety and health regulatory requirements.
2. The metal limits listed are maximum values and are not time-weighted averages. The airborne ceiling values in 29 CFR 1915 are different from the metal limits in the table.

3.2.2.2 Maximum concentration of contaminants: When evaluated in accordance with 4.5.2.2, the content of the abrasive material shall not exceed the values listed in [Table II](#) or in California Code of Regulations, Title 22, Division 4.5, Chapter 11, Article 3, Section 66261.24, (a)(1)(B) (see 4.5.2.2).

Adding new Note 3 that clarifies that metals data must be below the Table I limit or must be below the lower limit of quantitation.

Original MIL-PRF-22262C Pages 3 & 4

Updated MIL-PRF-22262C Amendment 1, Pages 3 & 4

MIL-PRF-22262C, Amendment 1 clarifies analytical methods for validating that Grade A media exhibit negligible amounts of beryllium.



Published MIL-PRF-22262C, With Amendment 1, that Includes Requirements for Aluminum Oxide Media

WAY AHEAD: NAVSEA working with industry to qualify media to MIL-PRF-22262C, Amendment 1 as follows:

- Qualified four garnet media as Class 2, Grade A media with measured beryllium level less than 0.00001% by weight.



- Qualified four nickel and copper slag media as Class 5 & Class 8, Grade A abrasive.



- Qualified two crushed, recycled glass media as Grade A abrasive.



- 21 Apr 2026, NAVSEA had conversation with major manufacturer of Al_2O_3 (i.e., aluminum oxide) abrasive blast media. Challenge is media sold under Commercial Item Description, A-A-59316, "Abrasive Materials; for Blasting" requires no qualification testing.

Need to encourage manufacturers to qualify aluminum oxide media to MIL-PRF-22262C with Amendment 1, Type II, Class 3, Grade A media.

QUESTIONS?