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SOLON® BELLEVILLE SPRINGS & WASHERS

TECHNICAL SERVICE BULLETIN

Document No.: D73321.16

Subject: Elimination of Black Oxide Finish on H13 Flange Washers

Part Numbers Affected: Solon catalog H13 flange washers produced in 2023

Condition: Solon Catalog H13 Flange Washers have a black oxide finish to AMS 2485

Cause: Solon had previously adopted the black oxide finish to prevent corrosion of parts while in inventory

Diagnosis: Black oxide finished parts typically have a darker, matte appearance than those with a natural uncoated surface. Black oxide parts may often have an oily finish as well.

Correction: Starting in 2023, Solon eliminated the black oxide finish from new production runs of catalog flange washers. There is a possibility that some shipments could contain a mixture of coated and uncoated parts. Justification is based on:

- Black oxide provides very little protection. Specification AMS 2485 for black oxide has no requirement for salt spray or other measured corrosion protection.
- Alternatively, parts will be protected in inventory and supplied with vapor corrosion inhibitor (VCI) bags. Parts may also be oil dipped. Packaging and oil coating will protect parts from corrosion in stock and during shipment.
- Elimination of harmful, hazardous material finishing processes supports sustainable practices to minimize negative environmental impact.
- Improper rework of black oxide parts could lead to increased risk of cracking.
- Black oxide finish is not a generally required industry standard.
- May reduce lead time.

Approved By: G. Davet

Approved Date: 05-03-2023

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Original Issue Date: 01-18-2023