



Subject: Notice of Escapement and communication notice for Huntsman Boeing Material Specification BMS 5-28 Certified product

Dear Valued Customers,

This Notice of Escapement (NoE) is for Boeing Material Specification BMS 5-28 Type 7 CL 2 certified Huntsman product.

**Applicability:**

This NoE is applicable for BMS 5-28 Type 7, Class 2 certified Huntsman product sold to or used on parts manufactured for the Boeing Commercial Airplane (BCA), Boeing Global Supply (BGS) Commercial business Boeing Defense, Space and Security (BDS) and Boeing Global Supply (BGS) Military business unit of The Boeing Company.

If you purchase BMS 5-28 Type 7 CL 2 (Epocast® 89537 A/B) into BCA, BDS or BGS, the MR process may be required due to product being above the requalification specification limit for compressive modulus at 350F after 14 days cure. Please note that all product released by Huntsman met all applicable Supplier Quality Control requirements as listed in BMS5-28 Section 7.1, including the limits for compressive modulus.

**Products Affected:**

- BMS 5-28 Type 7 CL II Rev AR (Epocast® 89537 A/B)

NoE Scope: Huntsman does not have the required Boeing approval for potential raw material changes as required per the BMS 5-28 specification as follows:

Requirements per BMS5-28 Section 6.1.d Rev AR:

No changes in approved product formulation, raw materials, basic methods of manufacture, or plant site for a material qualified to this specification shall be made without notification and prior approval in writing from The Boeing Company. It may be necessary to re-qualify material manufactured with the proposed change, and a revised product designation may be required.

Note: product identified above was supplied to and met all the applicable Supplier Quality Control requirements as listed in BMS5-28 Section 7.1.

**Discrepancy Statement:**

Requalification of Epocast® 89537 A/B shows compressive modulus at RT after 14 day cure @350F failed to meet the BMS requirement. Actual range from 500-796 ksi. Huntsman met all commercial release requirements including compressive modulus testing for all commercial releases going out to Boeing or to Huntsman's other customers. Compressive modulus 14 day cure at 350F is only required for qualification testing.

**Corrective Action Plan:**

Huntsman is investigating the possibility of an undisclosed change at the supplier of one of the raw materials. All other test requirements are not impacted by changes and meet all specification requirements. Standard Certification testing did not indicate any issue with the Compressive Modulus after 14 days at 350°F cure.

Huntsman proposed disposition:

"Use as is", effect would be minor if any. Recommend matching the specification requirement from 200 – 500 ksi to 200 – 800 ksi to the current product capability.

Huntsman shares the details of changes to Boeing only due to Huntsman proprietary.

Please let me know if you have any questions or concerns about the information herein.

Regards,



Victoria Jansz

Product Manager

Huntsman Advanced Materials – Los Angeles Site