



NSRP Presentation

Salt Standards

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Overview

- Salt Equivalency Standard
 - What is NACE SP0508-2010
 - Approval by IMO
 - In review at ISO
- Risk Assessment for Soluble Salts
 - Goals
 - Standard in Development



What is NACE SP0508-2010

- This is a NACE standard that defines how to determine a equivalent product to ISO 8502-9 (Bresle Patch)
- It was developed with the set intention of giving flexibility for new products to be introduced into the market place



IMO approves NACE SP0508-2010

- The NACE Standard was approved at IMO in October 2010 for the PSPC on Cargo Oil Tanks
- In an unusual move for IMO they reached back and also made the change retroactive to include the PSPC for Ballast Water Tanks
- For both areas the requirement is effective immediately



ISO addresses the Soluble Salt Issue

- ISO is developing a PSPC standard and NACE has been asked to take the lead for the US. Meeting February, 2011 in Hamburg, Germany. Lee Twombly to represent NACE.
- The area of Soluble Salts is a topic of discussion and the US has proposed using SP0508-2010 as the basis for approving equivalent products.



ISO addresses the Soluble Salt Issue (cont.)

- There are other approaches being proposed. JSTRA has proposed a test method that does not allow for equivalency but specifies an approach that is restrictive.
- NACE met with JSTRA in Japan two weeks and I believe we have resolved the differences.





Assessment of Soluble Salts

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Proposed NACE International
Standard

In Conjunction with IMO PSPC



What is it about?

- Similar to the adoption of Abrasive Blast Standards
- Market chooses how clean
- Based on a well-defined criteria
- Proposed Standard defines the criteria – The level of ions detectable.





Why this method?

- Blast standards started this way
- They devolved into current worldwide use
- This is a good model to follow
- Market place determines the cost for cleanliness



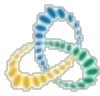


Basis for the Proposed Standard

- Basis includes existing practices to the extent possible
- Nine levels of ion level detection
- Used current ISO documents
- Use NACE SP0508-2010 for equivalency
- Initial use for maritime industry
- Uses ISO measurement standards –**mg/m²**

Table 1: Risk Category of Total Equivalent Weight of NaCl

NACE Salt Level	Level Name	Total NaCl Equivalent Salt Weight Equal to or Less than	
		mg/m ²	mcg/cm ² (µg/cm ²)
Level 1	SL-A	10	1
Level 2	SL-B	20	2
Level 3	SL-C	30	3
Level 4	SL-D	50	5
Level 5	SL-E	70	7
Level 6	SL-F	100	10
Level 7	SL-G	200	20
Level 8	SL-H	300	30
Level 9	SL-J	400	40



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Measuring Method

The level of total salt to be measured shall be done in accordance with ISO 8502-9 defined in Appendix A; or by any equivalent method validated in accordance with NACE SP0508.”

How does it help?

- Provides consistent set of measurements
- Uses existing measuring methods and means
- Allows changes in measurement technology
- Provides method of equating measurements via SP 0508.
- Gives shipbuilders and owners a basis of evaluating the cost /risk basis
- Starts the refinement of measurements.

Epilog

- That's all folks!
- Any Questions?

