

BATCH TEST CERTIFICATE

Date : 31/01/2015
Product : SKD-S2
Batch No : 15A12
Mfd. in : Jan 2015

We hereby certify that when tested at time of manufacture, the above material:

1. Meets the requirements of and has been tested for sulphur and halogens according to:
 - A. ASME Boiler and Pressure Vessel Code, 2004, 2007, 2010 and 2013 Edition, Section V, Nondestructive Examination, including 2005, 2006, 2008, 2009b, and 2011a Addenda, Article 6 Paragraph T-640 and Article 24 as applicable.
 - B. ASME Boiler and Pressure Vessel Code, 1995, 1998 and 2001 Edition, Section V, Nondestructive Examination, including 1999, 2000, 2002 and 2003 Addenda, Article 6 Paragraph T-640 and Article 24 as applicable.
 - C. ASME Boiler and Pressure Vessel Code, 1986, 1989 and 1992 Edition, Section V, Nondestructive Examination, Article 6 including 1992 Addenda, Paragraph T-625, 1993 Addenda Paragraph T-640 and Article 24 as applicable.
 - D. ASTM E-165-92, ASTM E-165-94, ASTM E-165-95, ASTM E-165-02, ASTM E-165-09, ASTM E-165/E-165M-12, Paragraph 7.1.
2. Meets the requirements of **NUCLEAR POWER CORPORATION OF INDIA** for materials for Dye penetrant Inspection process.

The following test results were obtained:

1. Sulphur	: <u>less than 25 ppm</u>	(Limits: 25 ppm Max)
2. Total Halogens	: <u>less than 5 ppm</u>	(Limits: 25 ppm Max)
3. Cleaner residue (see note 3)	: <u>NA</u>	g/100g

Form No: F/QC/012/05 Rev: 12/2014



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Corporate Identity Number (CIN) : U32301HR1979PLC038643

3. Meets the requirements of EN ISO 3452-2, EN 571-1 and ASTM E 1417 Paragraph 5.1
4. It is hereby certified that the above listed inspection material and batch number meets the requirements of AMS 2644F and is approved by the U.S. Air Force and listed on QPL-AMS-2644.

When tested according to paragraph 4.3.2, Sampling Plan A, the following test results were obtained:

• 4.2.2.1 Penetrant Tests:

Flash Point (PMCC), 3.3.3	NA _____ ° F
Viscosity, 3.3.4 (cs. Nominal)	NA _____ cs@100° F
Fluorescent Brightness, 3.3.8.3.2 (FP-4PE Standard)	NA _____ %
Water Tolerance (Method A only), 3.3.8.5	NA _____
Removability, 3.3.8.6	NA _____

• 4.2.2.1 Emulsifier Tests:

Flash Point (PMCC), 3.3.3	NA _____ ° F
Viscosity, 3.3.4 (cs. Nominal)	NA _____ cs@100° F
Water Content (Method D Only), 3.3.9.6	NA _____ %

• 4.2.2.3 Developer Tests:

Developer Fluorescence, 3.3.10.2	PASS _____
Developer Removability, 3.3.10.4	PASS _____
Redispersibility, 3.3.10.5	PASS _____

• 3.3.11.4 Remover Tests:

Penetrant Removal, 4.4.11.2	NA _____
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We further certify that this material does not contain mercury as a basic element and no mercury bearing equipment was used in its manufacture.



Manager - Quality Assurance

Notes:

1. Our batch number appears on the bottom of all aerosol cans and bulk containers.
2. The above certification gives the results obtained at the time of manufacture. Age and use may alter the properties of any material

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