



57640 North Eleventh Street
Calumet, MI 49913
Ph. (906) 337-3018
Fax (906) 337-2930
rel@relinc.com
www.relinc.com

REL TAM Panel - Single (Part Number: 250-00104)



Certification

REL certifies that REL TAM Panels are Hexavalent Chromium free.

Compliances met by REL TAM Panel plating: RoHS, REACH, WEE, ELV, and Proposition 65.

Pratt & Whitney Approved TAM 146040-1 (Mirror Finish).

REL, Inc. is an officially approved P&W Source Manufacturer. REL, Inc. certifies that the Fluorescent Penetrant Inspection REL TAM Panel meets the requirements as stated in **TAM 146040-1, ASTM E1417, MIL-STD-6866, TO 33B-1-1, NAVAIR 01-1A-16-1, TM 1-1500-335-23, Rolls-Royce, and GE Aviation Process Specification P3TF47**. The REL TAM Panel has been manufactured and tested in accordance with the REL, Inc. procedure RWI-1105.

REL TAM Panel and Documentation included:

1. Case w/ panel certification,
2. Serialized crack size certification documents, and
3. Pictures of the manufactured defects (5 each).

REL TAM Panel Cleaning Procedure:

1. Ultrasonically clean in 98% methanol for 15 minutes,
 - a. Alternate Cleaning Methods:
 - i. Ultrasonically clean in Acetone
 - ii. Ultrasonically clean in Isopropyl Alcohol
 - iii. Ultrasonically clean in Aqueous Alkaline Solutions

NOTE: Do NOT use Oxidizing Chemicals to Clean panel

2. 15 minutes air dry,
3. Verify cleanliness:
 - a. Use a LED UV-A lamp Certified to ASTM E3022. (See illustrations on 'ASTM E3022 Certified Inspection Lamps'. REL, Inc. document included for lamps approved for this purpose.)
 - b. Inspect REL TAM Panel (5 places) at the intensity level of 3000 microwatts per centimeter squared to verify no residual fluorescent penetrant exists on the surface.

REL TAM Panel storage:

1. Store in dry packaging, or
2. Store in Acetone

REL TAM Panel Serial Number: 290366-148

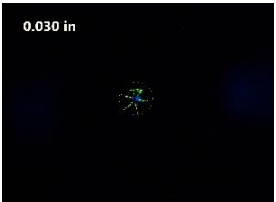
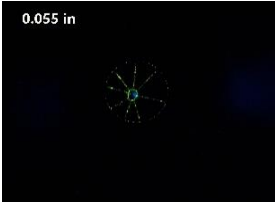
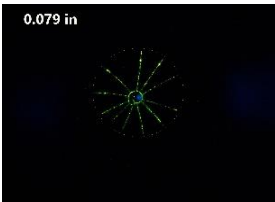
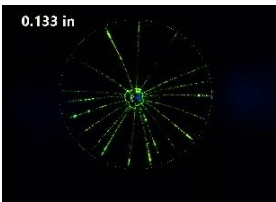
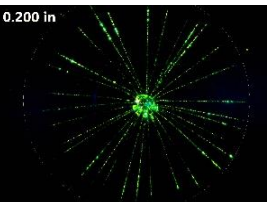
Date of Certification: July 5, 2024

Certified by:

Craig Kangas



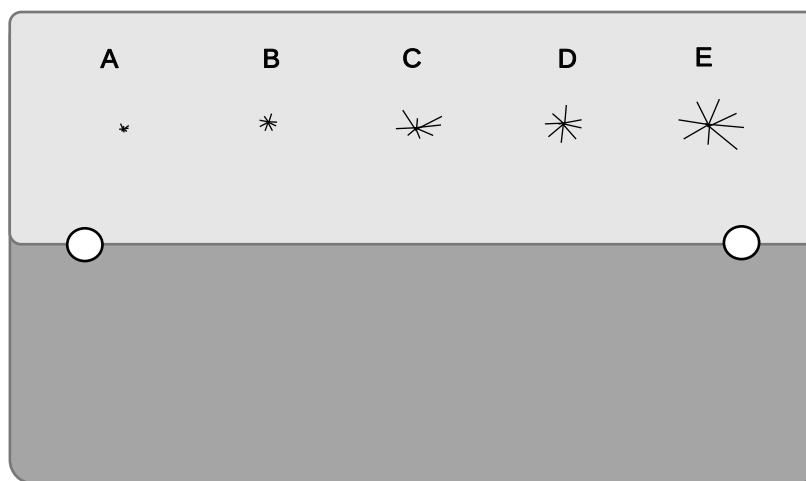
Penetrant System Monitoring Panel Documentation

SN# 290366-148					
Crack Position	A	B	C	D	E
Photo of Defect					
Magnification Factor: 1 : 5.5					
Measured Size (Inch)	0.030	0.055	0.079	0.133	0.200
Specification (Inch)	0.015 - 0.031	0.046 - 0.062	0.075 - 0.093	0.125 - 0.171	0.180 - 0.250
Measured Size (mm)	0.76	1.40	2.01	3.38	5.08
Specification (mm)	0.38 - 0.79	1.17 - 1.57	1.91 - 2.36	3.18 - 4.34	4.57 - 6.35

Crack Depth	.0025" ± .0001"	63 μm ± 2.5 μm
-------------	-----------------	----------------

Measurements/photos obtained using
amscope fitted with a2x objective
lens and mu800 Camera

Scale factor for viewing window
calibrated before each measuring
session with .200 gage block from set
number BE1-35-2, serial number
232981, Mitutoyo corporation



this panel does not contain
hexavalent chromium