

ISO 9001:2015	Document No. RDSO/M&C/NDT/106/2007, (Rev-2), July 2020	Version No. <b>1.0</b>	Effective Date:
Specification for Test Panels.			



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RDSO/M&C/NDT/106/2007, (Rev-2), July 2020

***SPECIFICATION FOR TEST PANELS***

**Amendment History:**

S. No.	Amendment date	Version	Reasons for Amendment
1.	1991	NA	First issue specification No . M&C/NDT/5/91 APPD.
2.	March 2007	NA	First revision of specification No . RDSO/M&C/NDT/106/2007, Rev-I, March 2007.( Specification renumbered)
3.	September 2012	NA	Reaffirmed.
4.	.....07.2020	1.0	The Specification should be generic & preferably reference to National Standard. (Reference: PED/QA ( Mech )'s note no. QAM/Spl. DG/Misc., dtd. 15.06.2020).

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Specification for Test Panels.			

**1. SCOPE:**

This specification covers the requirements of Nickel-Chrome plated test panels of specified crack size for use during visible dye and fluorescent penetrant system examination.

**2. TYPE:**

The test panels shall be of 4 types having flaw size of 10, 20, 30 and 50 microns.

**3. PANELS:**

The panels shall be made by plating a brass plate with nickel to the desired thickness and then applying tension to the panels to create linear, fine cracks. The plates shall be with a very thin layer of chrome as a protection film.

**4. DIMENSIONS:**

The dimensions of length, width & thickness shall be as under:

Length	---	100 ± 2mm.
Width	---	35 ± 2mm
Thickness	---	2 ± 0.2mm

**5. SUPPLY:**

Two pieces of above dimensions and crack depth shall be supplied as a pair.

**6. CRACK SIZE:** The Crack size tolerance on the plate shall be as under:

Crack size (micron)	Tolerance (micron)
10	± 1
20	± 2
30	± 3
50	± 5

Test panels shall be supplied in a casing which shall provide scratch free - storage.

**7. CERTIFICATION:**

Supply shall be substantiated with CRACK PROFILE PHOTOGRAPH and manufacturer's certificate for actual size and depth.

**NOTE :** “Firm should comply Make in India policy and Public Procurement (Preference to Make in India) order - 2017 under this specification” and subsequent amendment done time to time.

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