

ISO 9001:2015	Document No. RDSO/M&C/NDT/107/2007, (Rev-2), July 2020	Version No. 1.0	Effective Date:
Specification for Ultraviolet Lamp			



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RDSO/M&C/NDT/107/2007, (Rev-2), July 2020

***SPECIFICATION FOR ULTRAVIOLET LAMP***

**Amendment History:**

S. No.	Amendment date	Version	Reasons for Amendment
1.	1991	NA	First issue specification No . M&C/NDT/6/91 APPD.
2.	March 2007	NA	First revision of specification No . RDSO/M&C/NDT/107/2007, 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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## 1. SCOPE:

This specification covers the requirements of ultraviolet lamp used during fluorescent dye penetrant or magnetic particle examination.

## 2. GENERAL:

The ultraviolet lamp shall be light weight, powerful, durable and of tough construction. It shall consist of a hand held lamp with bulb and separate control unit with suitable inter-connecting cables.

## 3. UV CHARACTERISTICS

The lamp shall be provided with a high quality interference glass filters (woods glass or kopp filter) allowing only radiation in the range of wave length 330-390 nm.

## 4. U V INTENSITY:

The intensity of UV emission shall be  $4000 \mu\text{W} / \text{cm}^2$  at a distance of 38 cm. from the filter surface.

## 5. LAMP:

A 100 W Mercury vapour spot lamp shall be used for the light source and working life of this bulb shall not be less than 2000 hrs.

## 6. WHITE LIGHT EMISSION:

The unit shall not emit white light of more than 2 ft. candle intensity.

## 7. POWER SOURCE:

The unit shall be suitable for operation at 220 V, 50 Hz single phase power supply.

## 8. WEIGHT:

The unit shall be of light weight construction and shall not weigh over 1.5 Kgs. The housing can be of light weight, heat resistant, high strength material such as Aluminium.

## 9. SPARES AND ACCESSORIES:

Spare and accessories for 2 years trouble free operation shall be provided along-with the unit.

**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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