

**Dye Penetrant Test:**

Liquid Penetrant test is the Solvent Removable Process using colour contrast penetrant for detecting discontinuities that are open to surface of weldments and materials of any shape or size. As per ASME Section VIII-DIV.1 Mandatory Appendix-8, 2017 Edition and ASME Section V, Article-6, 2017 Edition.



**Magnetic Particle Testing:**

Magnetic Particle Test used to detect surface and slightly subsurface flaws in most ferromagnetic materials such as iron, nickel, and cobalt, and some of their alloys. As per ASME Section VIII-DIV.1, ASME Section V Article-7 2019 Edition.



**UV Black Light Testing:**

Specially used for Oxygen cleaned components for checking presence of any foreign particles. Instrument Range- 220V,50 Hz, 1 Phase, UV Intensity - 5000 $\mu$ w / cm<sup>2</sup> nominal, Wavelength- 365 nm, visible Light Intensity-Less than 10 Lux / 1 Foot candle.



**UV light Intensity Meter:**

Spectrum Range: 290nm-390 nm  
Application Range: UVA & UVB measurement.



**Radiographic Test:**

Radiographic examination of Carbon, Alloy and SS welds using X-rays or gamma rays (Ir. 192/Co-60). As per ASME Section VIII Div.1 Edition 2019, UW-51, UW-52, Mandatory Appendix 4; ASME Section V Article 2 Edition 2019; ASME Section IX Edition 2019, QW – 191.1; SE -999, Section V Edition 2019 and SNT – TC – 1A Edition 2006



*Ultrasonic Test:*

*By Manual contact ultrasonic examination of Butt welds, full penetration welds of Carbon Steel/ Alloy Steel/ Stainless Steel of thk range from 8 mm to 150 mm. For Weld Overlay/buttering on base material.  
As per ASME Section VIII Div. 1, 2019 Edition*



*PMI Measurement:*

*Thermo Scientific USA make Positive material Identification Gun (PMI) is to ensure & Identify the nominal composition of the Stainless steel / Alloy Steel material. This applies to the checking of material specified, including welds in accordance with the design requirements using instrument -Thermo Scientific, Model: NITON XL series.*



*Surface roughness measurement*

*Mahr-German Make Surface roughness Measuring Instrument used for precise machined component in critical applications. Measurement can be Calibrated in Function of Dynamic. Ra, Rz, Rs.*



*Chlorine Test Kit:*

*The HI3815 is a chemical test kit that measures chloride by titration with mercuric nitrate.*



*Salt Test Kit*

*Salt Kit test used for checking the presence of salt on metal surface.*



*Hydrotest Pump:*

*Centrifugal Reciprocating Hydro Test Pump with pressure ranges – 5000 psi & 3500 psi (each).*



*Pressure- Time Chart Recorder:*

*Circular chart Pressure-Time Chart Recorder with Display (Two Pen Stylus) for recording Hydrotest parameters in highly pressurized equipment.*



*Digital Ultrasonic Thickness Measurement:*

*Portable Digital Ultrasonic Thickness Gauge with Applicable range of 1.2 to 200mm.*



*DFT Meter:*

*Dry Film Thickness Meter- Instrument used on painted surface of ferrous and Non-Ferrous Metal having Range of 0 to 1300 Micron.*



*Other Digital Instruments like:*

*Hight Gauge, Vernier Calliper, Micrometer, Temperature Gauge and many more...*