

FlawGlo[®] Liquid Penetrant Testing Chemicals



Liquid Penetrant Testing is commonly known as LPT/PT or DPT. This is suitable for open to surface cracks for almost every product & materials regardless of their properties. It utilizes natural accumulation of fluid around a discontinuity to create a recognizable indication of crack or other surface opening defects. Usually, LPT materials are composed of Penetrant, Developer & Remove. Penetrant inspection depends mainly on the ability of liquid (Penetrant SWP-139) to wet the surface of the solid workpiece and flow over the surface to form a continuous uniform coating.

Capillary action attracts the fluid (penetrant) to the discontinuity as compared to its surroundings. To locate the defects, developer (SD-175) is applied to draw the penetrant out of the crack which can be seen in visible.

Cleaner (SC-190) also plays most important role in pre and post-cleaning of Liquid penetrant testing.

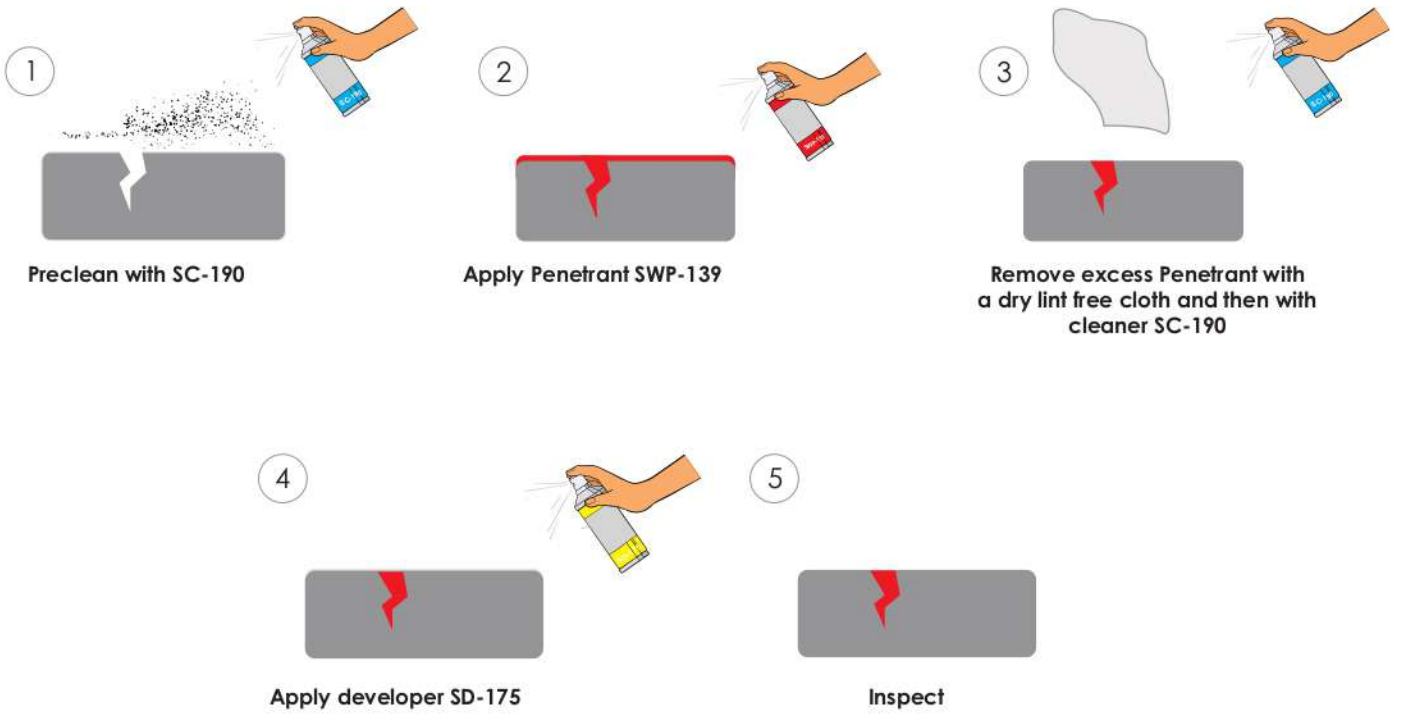
Salient Features:

- Vivid, high contrast color
- Low in Sulphur and halogens
- Good in Wettability, Viscosity & capillarity
- Superior flaw resolution
- Solvent type penetrant.
- Excellent reliability
- High flash point
- Compatible with any metals & many synthetic materials

Instructions:

- Begin the testing process by thoroughly cleaning the specimen to be tested using SC-190. Ensure that any surface contaminants or debris are removed to facilitate accurate inspection results.
- After proper cleaning, apply the penetrant SWP-139 on the specimen and wait for the dwell time, which ranges from 5 minutes to a few hours depending upon the specimen.
- After the completion of the dwell time, clean the excess penetrant with a lint-free cloth.
- Apply a thin uniform layer of developer SD-175 and wait for it to develop the indications (Development time is 7 to 30 minutes).
- After completing the inspection, post-cleaning is necessary with the help of SC-190.

Best Way to Perform Liquid Penetrant Testing (LPT):



Technical data for Aerosol Cans:

Part No.	Description	Approval & Specifications	Standard Packaging
FlawGlo SC-190	Solvent Cleaner	ASTM E 165-12, ASTM 0129-13 & ASTM D 808 Article 24 ASME BPVC - Sec V, IS 3658 & IS 12889,	420 ml Aerosol Can 1 Box (10 Cans)
FlawGlo SWP-139	Solvent Removable Red Dye Penetrant	ASTM E 165-12, ASTM 0129-13 & ASTM D 808 Article 24 ASME BPVC - Sec V, IS 3658 & IS 12889,	420 ml Aerosol Can 1 Box (10 Cans)
FlawGlo SD-175	Solvent Suspending Developer	ASTM E 165-12, ASTM 0129-13 & ASTM D 808 Article 24 ASME BPVC - Sec V, IS 3658 & IS 12889,	420 ml Aerosol Can 1 Box (10 Cans)

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