LD9

Solvent based developer

Description

LD9 is a suspension of an inert white powder in a quick drying solvent. It has a low sulphur, halogen and alkali metal content.

LD9 is used e.g. in non-destructive testing of forged parts, welds, casts and drop forged parts.

LD9 is used with any of the Checkmor® range of colour contrast penetrants.

Method of use

1. Pre-Cleaning
Clean part with e.g. Chemetall's S80 or S85 before applying penetrant (e.g. Checkmor® 300). Apply wet film of cleaner to part and wipe clean with cloth. Surface has to be free of grease, oil and dirt. Allow part to dry before applying penetrant.

2. Penetrant
Spray a thin even film of penetrant to cover test area. Allow penetrant approx. 10 - 30 minutes penetration time before removing.

3. Penetrant Removal
Remove excess surface penetrant with clean cloths, premoistened with solvent cleaner. Alternatively, removal can be done by water spray or by rinsing with water. DO NOT flush surface with cleaner as sensitivity will be impaired. Repeat procedure until surface penetrant has been removed.

4. Developer
Shake LD9 developer thoroughly until agitator rattles. Spray thin, even developer film over area to be inspected (spraying distance 40 - 60 cm). Allow 10 – 30 minutes developing time before evaluation.

Attention: the procedure above is a recommendation only. Please respect the relevant rules and specifications for your application.

Effects on materials

LD9 has no effect on most common materials of construction. It is safe to use on steel, aluminium, brass, bronze, copper, magnesium, cadmium plate and titanium.

Some plastics and rubbers may be softened by contact with this material; hence it is advisable to check before using specific grades of these.

Technical information

Appearance:	White powder in light grey liquid.
Density:	approx. 0.8 g/cm³ at 20°C.
Flash Point:	16 °C

Store LD9 cool, dry and away from sources of heat and avoid direct exposure to sunlight.

Equipment materials

Equipment/tanks should be constructed of stainless steel.

Safety guidance

Before operating the process described it is important that this complete document, together with any relevant Safety Data sheets, be read and understood.

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