

Approvals and conformities

ASME
ISO 3452-2
DASSAULT AVIATION
ROLLS ROYCE (OMAT : 632B)
SAFRAN
QPL-AMS 2644

MANUFACTURER: SHERWIN (USA) / NDT-Europa (NL)

DESCRIPTION / APPLICATION(S):

Type 1, method A, level 3, according AMS 2644 and ISO 3452-2, water washable fluorescent penetrant designed for detecting surface defects.

Very high biodegradability, product free of petroleum distillates.

Companion products: D-100, D-90G, D-106, R60 developers

DIRECTIONS FOR USE

This describes the basic process, but they may need to be amended by the user to comply with applicable specifications and/or inspection criteria provided by the contracting agency. Before any application, it is necessary to remove all stains that could clog the defects with a suitable process.

Application :

Apply HM-607 only to clean, dry surfaces by spraying, flowing, brushing or dipping. In this case, it may be better to dip parts during 1/3 of contact time and allow the penetrant to drain from the part surface back into the penetrant tank for 2/3 of contact time.

Total dwell time: 5 to 30 minutes.

Removal :

Use a ambient temperature water wash at pressure between 30 and 200 kPa, hydraulic or hydropneumatic gun (air pressure between 0,1 and 2 bars according to applicable specification). To avoid washing entrapped penetrant from surface flaws, do not use high water pressures and temperatures, or prolonged washing and scrubbing. Removal is done under UV-A light to be sure there is no more fluorescent background at the end.

Drying :

Circulating warm air (60-80°C). Using pressurized air, infrared lamp or warm air pistol is strongly not recommended.

Developing :

HM-607 is self developing. Nevertheless it is recommended to use a developer as listed above.

Inspection :

It shall be done in a darkened area (visible light level less than 20 lux) and under sufficient UVA light (minimum 1000 µW/cm², if possible more than 1500 µW/cm²). Actinic blue possible.

TECHNICAL CHARACTERISTICS

Very low sulphur and halogens content
Compatible with all metals and certain plastics

BIODEGRADABILITY:

According to the biodegradability test in aerobic and according to OECD 302 B criteria, HM-607 has shown capacities at inherent biodegradability.

The result is positive (biodegradability >70%) but this does not mean that the effluents of HM-607 can be released into natural environments, however an effluent discharge into water treatment plant is entirely possible: contact the entity managing the wastewater networks in your area.

Appearance green liquid
Flash point > 200°C
Fluorescence yellow-green

PRECAUTIONS FOR USE AND STORAGE

Transport / Handling: Refer to Material Safety Data Sheet (MSDS).

Storage : Keep away from moisture and day light

Temperature range: 0°C à 50°C

Keep packaging closed after taking out some of the product.

This technical data sheet replaces and cancels the previous one.

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1 Date : 05-07-2017 Written and checked by : F. Héron