

Description

WS 1827 S Crack 6 is a spray containing fluorescent particles to be applied to a part to be tested non-destructively by means of a magnetic field and ultraviolet light.

Due to the very small particle size and the UV light the detection capability is high. The particles are concentrated in the fissure by interrupting the magnetic field and can be detected at first glance with UV light.

Features

- Non-flammable product.
- Easy to clean with water.
- High detection sensitivity.

Applications

All types of welded parts of a ferritic nature which can be magnetised.

Instructions for use

1.

CLEANING

1.1 Surface Cleaning with WS 3050 S Crack 3.

For the development of any liquid penetrant examination procedure it is very important that the adjacent surface and possible discontinuities are free of any liquid or solid contaminants that may interfere with the process. All parts or areas of the part to be examined must be clean and dry before applying the penetrant. If only a section of the part, such as a weld, including the ZAT zone is to be examined, any possible contaminants must be removed, the surface must be free of rust, scale, dirt, oil, weld flux, spatter, grease, paint or any contaminant that could interfere with the process. These types of contaminants can prevent the penetrant from entering the discontinuities.

1.2 Drying after cleaning.

It is essential that the surfaces of the parts are completely dry, drying can be done by heating the parts in drying ovens, with infrared lamps, forced air or exposed to room temperature.

Demo
1827 S



2. MAGNETISE THE AREA TO BE INSPECTED

The area to be tested must be magnetised by one of the following types of magnetisation:

- Magnetisation with Yugo.
- Pin magnetisation.
- Indirect Magnetisation with Spiral or Central Conductor.
- Magnet current.

3. APPLICATION OF FLUORESCENT MAGNETIC PARTICLES WS 1827 S Crack 6

The test is carried out by applying **WS 1827 S Crack 6** to the magnetised area to be inspected. Then, under dim lighting, examine the workpiece with the UV lamp to detect possible cracks.

4. STAFF APPRAISAL, PROCEDURE, AGENCY

It may be required in a user/provider agreement that all examination personnel are qualified/certified in accordance with a written procedure according to the applicable edition of the practice, depending on the country/continent there are different certification systems SNT-TC-1st, ANSI/ ASNT CP-189, NAS 410, MIL-STD-410, etc.

Also, if the examination requires a Non-Destructive Testing Agency Qualification, the agency shall comply with E543.

5. EXPIRY

The shelf life of this product is 5 years* from the date of manufacture, this information can be found on the packaging.

*observing the recommendations on Proper Storage Conditions.

Certifications/Specifications

Meets and exceeds the standards of the following specifications:

- ASTM E 709
- ASTM E 1444
- ASME Sec V Art.7
- ISO 9934
- ISO 10893-5
- NAVSEA 250-1500-1
- BS 4069
- MIL-STD-271
- MIL-STD-1949
- AMS-3042
- DIN 54132

Technical Data

Property	Specification/Method	Value
Reference	- - - - -	WS 1827 S
Aspect	- - - - -	Liquid
Colour	- - - - -	Yellowish