

FLUOGRAPHE

CONTROMAG

SONDEX

FLUXO

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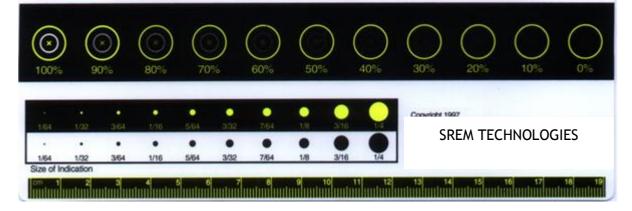
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INSPECTABILITY SCALE UTE-3

INSPECTABILITY SCALE UTE-3 FOR INSPECTION UNDER ULTRAVIOLET RADIATION (UV-A)

INSPECTABILITY SCALE UTE-3. The scale consists of a series of flourescent rings, each of which contains a non-fluorescent inner ring and a fluorescent X. The nonfluorescent inner rings and the fluorescent X marks are graduated to thow relative brightness from zero to 100%. When viewed under ultraviolet light (black light) in the inspection area, the X marks should be easily seen, down to 30% or less relative brightness. The ability to see the X marks improves with dark adaptation of the eyes and with increased ultraviolet light intensity. If the X mark at 30% relative brightness cannot be easily seen, the ultraviolet light source should be brought closer to the inspection subject or the ultraviolet light intensity should be increased. If the non-fluorescent inner ring appears to be as bright as the corresponding X mark,

the level of ambient white light is excessive and fluorescent contrast is diminished. To correct this, the ambient white light must be reduced or the ultraviolet light intensity increased.



The inspectability scale UTE-3 for inspection under ultraviolet radiation (UV-A) enables you to determine if the fluorescent brightness of the indications on the surface under inspection is sufficient, and if it offers adequate contrast with the ambient white light. It also allows you to ascertain whether the inspector's vision has adapted sufficiently to be able to distinguish the dimensional readings that he is looking for.

The UTE-3 scale is made up of a series of concentric circles inside which there are smaller white concentric circles, with a fluorescent "X" cross mark at the centre. The fluorescent brightness of each of the white circles with successive fluorescent "X" marks gradually diminishes until the last in the series is no longer visible.

PROCEDURE:

Place the UTE-3 scale in the inspection cabin (or the inspection area), under ultraviolet radiation (UV-A), on the work surface or on the surface to be inspected so that the inspector can determine which of the "X" marks he can still see. The inspector must be able to see them easily, as far as those corresponding to a relative fluorescence brightness of 30% or even less.

If this is not the case, the inspector must wait a moment longer before inspecting the parts. This waiting time corresponds to the time necessary for visual adaptation under ultraviolet radiation (UV-A) in the inspection cabin (or the inspection area). After exposure to daytime brightness, even for a short time, the human eye only gradually recovers its sensitivity to low brightness; this visual adaptation, which must therefore be checked, generally takes several minutes.

The visibility of these "X" marks is improved:

- Either by increasing the ultraviolet irradiance (UV-A), for example by moving the ultraviolet (UV-A) light source nearer to the surface to be inspected.
- Or by visual adaptation in ultraviolet light (UV-A).

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VISUAL ACUITY COMPARATOR:

UTE-3 VISUAL COMP AEGER J1 NEAR VISION CHECK (FOLLOWING TYPE IS J1 S			mann, hold die eerf a diesane fran tie eyne of out inn than 12 instan (10.5m.). Ligding fin
IAEGER J2 NEAR VISION CHECK (FOLLOWING TYPE IS J2 S he eyes of not less than 12 inches (30.5cm.). Lighting for the near vision check should be the same as existing during actual quality assurance ins			
CONTRAST CHECK Hold this card at the desired viewing distance, with surface illumination at least 35 foot candles. If the 1/64 inch line can be seen, vision contrast is considered to be satisfactory. Next hold this card at the surface of the item being inspected, under the normal inspection conditions. If the	1/16"		
	3/64"		
	1/32"		
1/64 inch line cannot be seen, inspection lighting is inadequate.	1/64"		
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SREM Technologies ZI Ouest, 14 rue des Frères Chappe 72200 La Flèche Tel: 02 43 48 15 10 Mail: info@srem.fr Web: www.srem.fr The visual acuity comparator, which is on the other side of the UTE-3 inspectability scale for inspection under ultraviolet radiation (UV-A), includes sentences printed in Jaeger 1 (J1) and Jaeger 2 (J2) font. The ability to read the appropriate sentence (J1 or J2 according to the applicable specification) on the inspected surface indicates the visual acuity of the inspector in the test illumination conditions. If the inspector can read lines J1 and J2 normally with the naked eye but is unable to do so on the inspected surface (in the same illumination conditions), this means that the illumination conditions are not appropriate and must be improved.

There is also a series of lines with specified thicknesses which must be visible if the contrast is correct in the test illumination conditions. If the 1/64'' line is not clearly visible when the Comparator is applied on the surface under inspection, this means that the illumination is not correct.