BRITEMOR® / CHECKMOR® S72, S76 and S85

SOLVENT REMOVERS

1 Description

The solvent removers S72, S76, and S85 are a series of non-chlorinated, volatile solvents which are used for the removal of surface excess penetrant in the solvent removal process or wipe-off technique. They have a low sulfur and halogen content.

The S series of solvent removers are ideal for the removal of oil, grease and other organic contamination as a pre-cleaning of surfaces before the application of a penetrant or a magnetic ink.

S72, S76 and S85 are available as bulk material and as aerosol cans.
They are typically used together in a penetrant system with the Checkmor® or Britemor® penetrants and the LD series developers.

Conformances

✓ EN ISO 3452-2	Method C, class 2
✓ SAE	QPL-AMS 2644 (approval, except S85)
✓ ASME Boiler & Vessel Code	Section V, Article 6

Ask your Chemetall representative for a complete list of approvals

2 Physical and chemical properties

Property	Unit	S72	S76	S85
Appearance	-		Clear, colorless liquid	
Density	g/ml @ 20°C / 68°F	0.76	0.71	0.79
Flash point	°C / °F	32 / 90	-4 / 25	12 / 54

These are typical values only and do not constitute a specification.

3 Method of use

3.1 As a pre-cleaning solvent

S72, S76 or S85 should be sprayed directly onto the contamination to be removed. The surface may then require wiping or flushing with the solvent cleaner depending upon the level of contamination to be removed. For best results, the surface should be given a final wipe over with a clean cloth or tissue dampened with S72, S76 or S85.

3.2 For the removal of excess penetrant

When S72, S76 or S85 is used to remove excess penetrant at the end of the penetrant contact time, it is applied to the tested surface using the wipe-off technique. The bulk of the surface excess penetrant is wiped away by using clean, dry absorbent cloth or paper; then S72, S76 or S85 is applied to a similar cloth or paper and the tested surface is wiped again until a satisfactory level of background is achieved.

Surface temperature should be between -10 and 50°C (15-120°F).

Never apply solvent penetrant removers by direct spray on or immersion of the tested surface for the removal of the excess penetrant as this will lead to a loss in sensitivity of the process.

LD7 or LD9 non-aqueous developer can then be applied to the dry surface.
For Checkmor® color contrast processes, inspection should be carried out in diffused white light of at least 500 lux (approx. 46 ft.cdl) and in the case of Britemor® fluorescent penetrant processes under UVA of 365 nm peak wavelength, typical output of 1200 µwatts/cm² at 38 cm from the component.

Attention: the procedure above is a recommendation only; where relevant, the process specifications of the approving authorities must be followed.

4 Effects on materials

When S72, S76 or S85 is used in the prescribed manner, no significant corrosion is likely to occur on commonly used constructional metals.

S72, S76 and S85 may cause swelling of some rubbers and plastics. If S72, S76 or S85 is to be used on synthetic surfaces, including painted surfaces, the product should be tested for compatibility before application

5 Storage

Store in a cool place, with protection from freezing conditions. Shelf life is 36 months for aerosol cans and 60 months for bulk material.

6 Labor and environmental protection

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

All local and national regulations on the transport, storage, use and waste treatment of chemicals in concentrated or diluted form and as working solutions must be obeyed.

7 General Information

Chemetall supplies a wide range of chemical products and associated equipment for cleaning, descaling, paint and carbon removal, metal working and protection and non-destructive testing. Sales Executives are available to advice on specific problems and applications.

The above details have been compiled to the best of our knowledge on the basis of tests and research work and with regard to the current state of our practical experience. This technical product information is non-binding. No liabilities or guarantees deriving from or in connection with this leaflet can be imputed to us. Statements relating to possible uses of the product do not constitute a guarantee that such uses are appropriate in a particular user's case or that such uses do not infringe the patents or proprietary rights of any third party. The reproduction of any or all of the information contained in this leaflet is expressly forbidden without Chemetall's prior written consent.

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