

DR-60 CLEANER-REMOVER

Approved Class 2, MIL-I-25135 Rev. D & E, and AMS-2644
Approved Group I & VII of MIL-I-25135 Rev. C



PRODUCT INFORMATION

Description: DR-60 Cleaner-Remover is used in the penetrant process to remove excess, nonwater-washable penetrants from part surfaces, e.g., Sherwin DP-40 Dye Penetrant (visible red) and Sherwin RC-65 and RC-77 Fluorescent Penetrants. It is a manual "wipe on" and "wipe off" material and, consequently, recommended for small areas. DR-60 may also be used for generally cleaning oily, dirty surfaces. DR-60 is especially suitable for cleaning prior to the application of inspection penetrants.

DR-60 meets low halogen and low sulphur requirements. It is a nonchlorinated material and non-miscible in water. It is relatively volatile and evaporates completely and rapidly. DR-60 meets MIL-I-25135 and AMS-2644 requirements.

Special Features: DR-60 Cleaner may be used for removing excess surface penetrant during the inspection process. DR-60 Cleaner also is widely used for postcleaning in the magnetic inspection process. DR-60 is found widely in machine shops, foundries, and overhaul shops; it is a good, all-purpose cleaner.

Companion Materials: Use DR-60 with all of Sherwin Incorporated's visible and fluorescent penetrants.

Container Sizes:

- case of 12 aerosol cans
- one-gallon cans
- case of 4 one-gallon cans
- five-gallon pail
- 55-gallon drum

Basic Instructions: (These instructions describe the basic process. They may need to be amended by the user to comply with applicable specifications and/or inspection criteria provided by the contracting agency.)

1. **General Cleaning:** Spray on dirty surface, saturating the contaminated area. Let stand 10-30 seconds, allowing organic soils to dissolve. Wipe clean with rag or toweling before DR-60 dries completely. Repeat if necessary.
2. **Penetrant Pre-Cleaning:** Normally, Sherwin's other cleaner-remover, DR-62, is recommended for penetrant pre-cleaning. However, DR-60 has good pre-cleaning properties and is suitable for this purpose. Before applying penetrant, follow the above instructions for using DR-60 as a general cleaner. Make certain cleaning is sufficient to remove flaw-entrapped as well as surface soils. Allow DR-60 to evaporate completely from within any flaws before applying the inspection penetrant.
3. **Penetrant Removal:** Use DR-60 sparingly. Remove as much excess penetrant as possible using clean, dry rag or toweling. Remove remaining penetrant film by wiping with rag or toweling that has been slightly moistened with DR-60. Use a minimum of DR-60; avoid flushing penetrant from flaws. Do not spray DR-60 directly on part surface when removing excess penetrant. Rough surfaces require more generous applications of DR-60.

Allow surface to dry completely before applying developer.

See Other Side for Precautionary Information ...

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Applicable Specifications:

MIL-I-25135 Rev. C & Rev. D & E
AECL
Navships 250-1500
ASME B&P Vessel Code

AMS-2644
MIL-STD-271 E
ASTM-E-165
AMS 2647

ASTM-E-1417
MIL-STD 6866
RDT Standard

PRECAUTIONARY INFORMATION

DR-60 is a flammable liquid. Use with adequate ventilation and away from sparks, fire, or open flame. Avoid prolonged or repeated contact with skin. Do not take internally. Avoid breathing vapor. Do not puncture, heat, or incinerate aerosol cans: store under 120°F and out of direct sun. Empty containers may still contain hazardous vapors or liquids; do not weld, heat, or drill.