

Met-L-Chek manufactures a complete line of developers used in the fluorescent (**Type 1**) and visible (**Type 2**) dye penetrant inspection process. All Met-L-Chek developers are qualified to **AMS-2644** and are sold under the *Met-L-Chek*® and **Pen-Chek**[®] trademarks.

The use of a developer is required by most penetrant inspection specifications. The developer draws the pen-etrant from the flaw and creates a uniform surface on which to view the penetrant indication. **D-72A** is used with fluorescent penetrants as form "a" developer per AMS-2644 and ASTM E-1417. It is applied after the surface penetrant has been removed and the inspection surface dried. **D-72A** dry powder developer consists of light fluffy absorbent, low toxicity powders. The particles are very light and will float in the air and are considered a nuisance dust. This form of developer is generally applied in special storm or dust chamber equipment, but may also be dusted on to parts with a feather duster, or electrostatic spray. If sprayed avoid build up of a heavy developer film. A very fine dusting is the recommended coverage. The developer film is easily removed from the part surface with water after inspection.

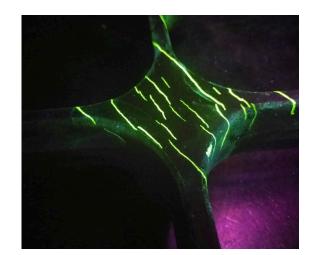
D-72A is approved by Boeing, GE, Pratt & Whitney, SNECMA, and **ISO- 3452.** It is low in Sulfur, Sodium, Chlorine, Fluorine and other Halogens, making it safe for use on Titanium and high Nickel alloys found in aero-space, medical and nuclear components.

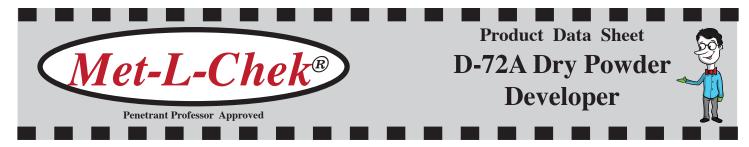
D-72A has been demonstrated to work with red (**Type 2**) dye penetrants on rough castings for gross defect detection when applied by electrostatic spray, but this method is not addressed by current specifications.

D-72A powder



Fluorescent penetrant indications with D-72A





Typical Physical Properties

Form: white fluffy powder Density: 160 g/L Flash Point: none Fluorescence: none Coating: light dusty Removability with water: complete Corrosion of aluminum: none Corrosion of carbon steel: none Corrosion of magnesium: none Corrosion of stainless steel: none Corrosion of titanium: none Chloride content: < 100 ppm (0.01%)Fluoride content: < 50 ppm (0.005%) Sodium content: < 100 ppm (0.01%)Sulfur content: < 200 ppm (0.02%)Mercury: none VOC's: 0 g/L Ozone layer depleting substances: none PCB's: none

Specifications

AMS-2644AMS-2647ASME B & PV code sec VASTM E-165ASTM E-165ASTM E-1417ISO-3452PMC-4356R-R CSS-232R-R Omat #606CSnecma DMC0010 rev J, sensibilité S2, S3, S4

Product Availability

10 lb.(4.5K) box 25 lb.(11.3K) box 1 pint can (0.4L) with <u>NSN #'s</u> 10 lb 6850-01-264-8682

1 pint can (0.4L) with dauber 6.5g(2.2oz)



BEFORE USING ANY OF THESE PRODUCTS, YOU MUST BECOME COMPLETELY FAMILIAR WITH THE INFORMATION CONTAINED IN MCGEAN'S SAFETY DATA SHEETS. All information contained therein or in this document regarding handling, personal protection, and other safety measures must be followed during use. McGean presents the information herein without warranty and disclaims any liability, including any consequential, special, or indirect damages, arising from its use and misuse. Because the use, the conditions of use, product or product composition, and/or applicable laws may differ from one location to another and/or may change with time, the purchaser and/or user is solely responsible for determining whether the product is appropriate for use. McGean recommends use of this product solely in commercial processes which are specified by McGean and which do not violate any third-party patent rights or any laws or regulations or otherwise adversely impact human health and the environment. Users must make their own investigations and determine the suitability of the product for their particular purposes. McGean does not guarantee the accuracy of any data provided by its suppliers. MCGEAN MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE EXCEPT AS EXPRESSLY STATED IN THE SELLER'S SALES CONTRACT OR SALES ACKNOWLEDGEMENT FORM. USE OF ANY MCGEAN PRODUCT IS AT THE USER'S RISK.

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