

ALODINE 1132 Touch-N-Prep pen

TNP pen conquers Aerospace Market



After Boeing-St. Louis has implemented a new method to apply chemical conversion coatings on aluminum and aluminum alloys by involving the use of an applicator pen called Touch-N-Prep Alodine 1132, also Europe has now discovered the many advantages of this application method. The pen is a special felt tip marker that contains the Alodine 1200 conversion coating solution and works like a highlighter pen, making it very user friendly. The pen has several noteworthy advantages over the other application methods such as spray, brush, and immersion. The Touch-N-Prep pens have the distinct advantage of a 24-month shelf life over all other methods of applying conversion coating per PS 13204. Conversion coating application methods such as spray, brush, and immersion typically have a 3 to 12-month shelf life.

Other advantages for using the Touch-N-Prep pens include:

- ✓ reduced operator exposure to the conversion coating solution,
- ✓ logistics advantages such as in field repair to aircraft,
- ✓ reduced labor time, and the
- ✓ elimination of hazardous waste being generated.

This elimination of hazardous waste and reduced labor are significant advantages. Even though the Touch-N-Prep pens cost more than the old brush-on method, a cost savings analysis estimate showed an approximate savings of \$250,000 for the first year of pen usage at Boeing St. Louis.

Feedback was obtained from the floor operators after one month of using the Touch-N-Prep pens.

Some of the feedback comments are as follows:

"The Touch-N-Prep pens are great, no rinsing and wiping and thus no waste to get rid of..."

"The conversion coating does not migrate and get on surrounding areas; the Touch-N-Prep pens are easy to use..."

"Using the Touch-N-Prep pen saves me time and makes my job a lot easier..."

"It's nice to be able to use the Touch-N-Prep pens when working overhead, and not worry about alodine dripping on me..."

Alodine 1132 Touch-N-Prep is approved under:

Airbus AP 2253, Boeing BAC 5719, Dassault DGT 562467
GE C03-092, MIL-DTL-81706, Turbomeca CCT LB608

**Henkel**

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ALODINE 871 (Trivalent Cr) Touch-N-Prep pen

Meets demands of Aerospace & Defense



Henkel announces the development and approval of Alodine® 871 Touch-n-Prep trivalent chromate-based touch-up coating to U.S.military specification MIL-DTL-81706B.

The coating is used to repair bare areas of metal surfaces to prevent corrosion. The ready-to-use pen applicator provides an easy and safe application method by delivering the coating directly onto the surface. The unique Alodine®871 no-rinse conversion coating can be applied to most bare metal surfaces including aluminum, ferrous and galvanized substrates."Henkel is committed to developing innovative and sustainable products that contribute to process efficiencies and Alodine® 871 is a great example of such a technology due to its no-rinse formula and easy-to-use pen applicator that controls the amount of product dispensed. Alodine® 871 inhibits corrosion by forming a barrier layer on the substrate preventing moisture from reaching the substrate and initiating the corrosion process. The coating also has low electrical resistance due to its metallic nature, and does not significantly restrain the flow of electrical current through the coating. In addition, it provides improved paint adhesion by depositing a clear to light blue iridescent film on application. Touch-N-Prep® coating represents a dramatic environmental improvement over current methods of chemical film touch-up. The film itself only needs to be thoroughly dry in order to be effective for primer and top coat applications. Alodine® 871 however does not require rinsing, and can be air dried or force-dried with hot air or an infrared lamp. This optimized application method greatly reduces the amount of chemical used and generates no secondary waste associated with other repair methods. The dry-in-place nature of the coating eliminates the need to contain and properly dispose of rinse water needed with traditional conversion coatings. Alodine® 871 is suitable to repair or touch-up non-chrome, trivalent chrome and traditional conversion coating areas. Additionally, it can be used to coat small parts where a conversion coating tank line is not practical. The coating is formulated for bare corrosion protection and for bonding applications when combined with organic coatings or structural adhesives. In addition to the military specification approval, Alodine® 871 Touch-N-Prep coating is also being evaluated by many of the leading aerospace and defense manufactures.



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Product Features and Benefits

- ✓ Easy to use, cost effective touch-up and repair applicator
- ✓ Designed to save labor, material, and time with easy to use applicator
- ✓ Non-rinsing, dry-in-place technology
- ✓ Excellent paint adhesion and painted corrosion resistance
- ✓ Contains sufficient solution to treat up to 50 sq ft (4.6 sq m)
- ✓ NSN Number: 8030-01-560-9113