

# Aircraft Specialty Products

## Wet Film Thickness Gauge Instruction Manual

### Wet Film Thickness Gauge Features and Benefits:

The **Wet Film Thickness Gauge** is a tool for measuring a coating's thickness immediately after the coating has been applied on a material in the easiest and fastest manner.

The **Wet Film Thickness Gauge** consists of four sides with different ranges of value with notches that are machined into the gauge sides with teeth between the notches of the gauge that serve as references to the ends of the edge of the **Wet Film Thickness Gauge**.

The notches that are present on the same sides of the **Wet Film Thickness Gauge** are shorter relative to the outside notches. Each of these notches on the **Wet Film Thickness Gauge** signifies varying distances from the outside edge teeth corresponding to zero.

The distances between the notches on the **Wet Film Thickness Gauge** represent the wet coating thickness surface that needs to be measured.

The notches are marked off in **MILS (0.001 inches (0.002 cm))** on one side of the **Wet Film Thickness Gauge** and microns on the other side of that gauge.

Figure 1: Wet Film Thickness Gauge Notches In Mills



Figure 2: Wet Film Thickness Gauge Notches In Microns



### Wet Film Thickness Gauge Application Procedures:

For a particular side, the two ends of the edge of the **Wet Film Thickness Gauge** are pushed into the coating until they are in contact with the substrate. Those ends act as the **zero reference**.

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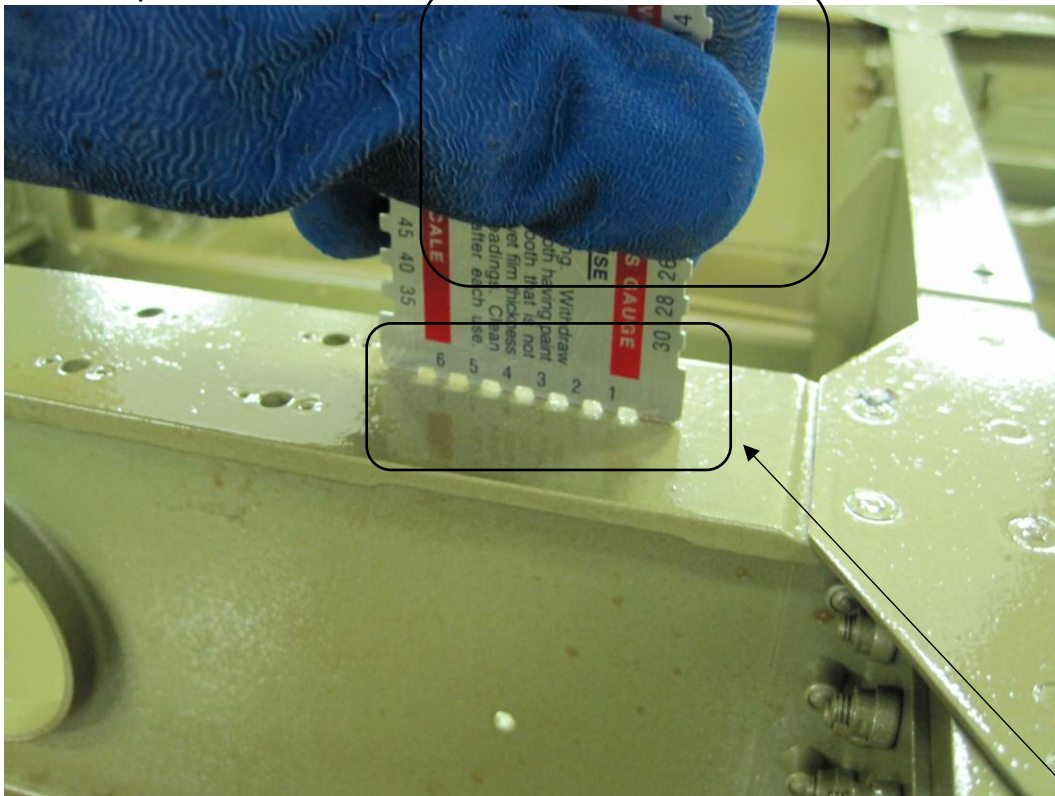
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### Wet Film Thickness Gauge Application Procedures (Continued From Page 1):

To measure the wet film thickness of a compound, use protection for your hand, such as gloves, so that you can push **Zip-Chem®'s Wet Film Thickness Gauge** as shown below into the compound via hand after it has been allowed to flow for a few minutes. This process is illustrated in **Figure 3** below.

**Figure 3: Pushing The Wet Film Thickness Gauge Into The Compound**



The thickness of a coating can be determined by the visible tracks in the wet film that are left by the gauge fingers of the **Wet Film Thickness Gauge** and by looking at the last foot to push into the film. Note the depth at which there is no longer an impression left in the film.

 For more information contact us :  
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### Wet Film Thickness Gauge Application Procedures (Continued From Page 2):

The **Wet Film Thickness Gauge** must be placed at a **90-degree angle** to the coated material and must be completely contacting it.

Once the measuring **Wet Film Thickness Gauge** is taken out of the material, the depth is determined by the biggest notch that can be seen in the coating and the smallest notch that cannot be seen in the coating. For instance, if the largest notch that is observed is at **8 MILS (203 microns)** and the smallest notch that is not observed is at **10 MILS (254 microns)**, it can be said that the wet film thickness is at **8 to 10 MILS (203 to 254 microns)**.

To achieve accurate measurements, the following must be observed:

- Wet film thickness must be measured immediately after the coating has been applied for coatings that cure
- The gauge must be used on a smooth, flat surface without irregularities
- Several measurements should be taken in series to get an average result
- The gauge should be cleaned with a soft cloth after use

### Wet Film Thickness Gauge Product Packaging Part Numbers and Additional Materials To Order:

**Wet Film Thickness Gauge**  
\*100266

Compound That You Would Like To Measure The Thickness Of

Gloves And Other Hand Protection

Soft Cloth Or Other Cleaning Cloth

For application questions regarding the **Wet Film Thickness Gauge** contact **Zip-Chem® Aviation Products** at (1) 408 782 2335 or zipchem@addevmaterials.com.

 For more information contact us :  
[zipchem@addevmaterials.com](mailto:zipchem@addevmaterials.com)

