



Godfrey & Wing Inc.

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CLEANING AND SURFACE TREATMENT

Falling between the subsurface mechanical properties of shot peening and the burr / flash /scale removal of abrasive blasting is Cleaning and Surface Treatment (CST). While the technology of shot peening rarely allows for a 'direct' measurement of the process benefits and the metric of abrasive blasting is generally visual, Cleaning and Surface Treatment (CST) falls into processes that can be measured and monitored on the part itself.

At Godfrey & Wing CST takes the form of three main processes:

1. Controlled abrasive blasting – performed to achieve a specific micro-finish on the surface of a component. Commonly specified to enhance add surface area to assist in subsequent bonding operations or where friction is a key characteristics of a components operations. Generally specified as a micro finish.
2. Conversion Coatings – ROHS complaint conversion coatings enhance the paint bonding capability of aluminum components and provide for corrosion prevention. Where abrasion resistance is not required, Godfrey & Wing's ROHS compliant coatings are an excellent alternative for cost effective corrosion prevention. Generally specified as Salt Spray resistance.
3. Precision Cleaning and Etching – used on aluminum where any residual abrasive material may cause contamination above specification. Light soils are removed from the surface of the aluminum then the material is 'etched' to expose the sub surface matrix for future bonding. Common applications are high strength adhesives or for sealing mating components against oil or moisture penetration. Specifications range from Dyne values to bonding strength.

Contact us today and learn how Godfrey & Wing can assist you in meeting your most demanding specification.

For more information on our capabilities or for specification assistance please contact us today.