



**SALLOYTECH**

Here at Salloytech we  
provide technological  
solutions for the Thermal  
Spray facilities.

We are mechanical engineering company with production lines set up to manufacture Thermal Spray test coupons, specimens, panels, strips, buttons for:

- Tensile / Bond strength test of coatings
- Hardness
- Microstructure evaluation
- and other tests

**Test specimens manufactured by our developed technologies will allow you to:**

- obtain better test results for coating qualification
- improve reduced testing / sampling
- stabilize production
- decrease warehouse inventory
- receive continuous and timely deliveries

**We guarantee delivery of high quality and functional products as a result of:**

- years of experience in the aerospace industry in thermal spraying
- ISO 9001:2015 certification for manufacturing and design
- proven metalworking processes of titanium alloys, cobalt and nickel-based superalloys
- fixed production processes

Test coupons also called “test buttons” for tensile / bond strength test of coatings are our flagship product. We know how many variables are in testing and we do our best to minimize their influence on the test results. Thanks to our proprietary manufacturing process we can make test buttons with tight tolerances up to 0.0004 inch or 0.01 mm TIR of:



flatness of flat surfaces



parallelism of flat surfaces

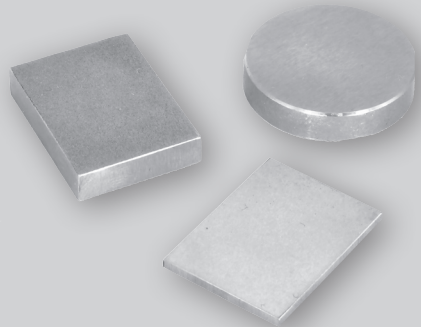


outside diameter

and with:



similar surface finish as the part

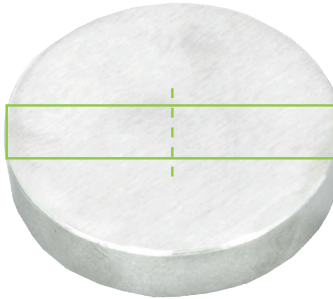


for the good roughness correlation of the part and the specimen after grit blasting.

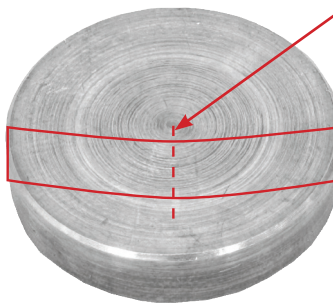
The results of the fabrication are:

## TENSILE / BOND STRENGTH OF COATING TEST COUPON/BUTTON

Salloytech fabrication



Conventional machining by turning



additional  
material tip

Furthermore, our quality inspection staff check each one of them.

### Why to use tight tolerance test coupons?

Thermal Spray facilities especially in aerospace industry often need to check coating quality on test specimens by destructive tests e.g. tensile / bond strength test. This need to be done for basically three reasons:

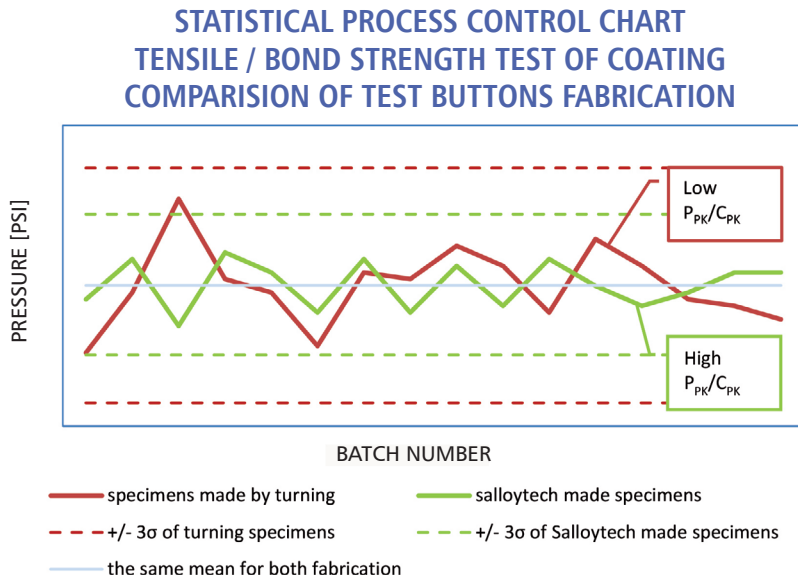
- to obtain approval for coating in qualification process,
- continuous monitor of coating consistency,
- decrease the frequency of testing according to Reduced Testing / Sampling procedure.

The acceptance or magnitude of above activities often depends on a process capability / performance index CPK / PPK calculated with the test results during

Statistical Process Control e.g. the more stable test results are the higher testing reduction can be obtained and maintained. There are many factors of test results variation but one of them is quality of test specimens – and here we have a solution for your facility. Using our made test buttons you can:

- obtain better test results for coating qualification,
- improve reduced testing and hold it on a high level.

Please see a visualisation on the graph below.



Please feel free to contact us if you have any questions or need further information. It will be pleasure for us to provide free samples of test coupons for your needs.

**Salloytech Sp. z o.o.**

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