

EXPERT TEST SERVICES

Technical Test List

Accredited tests STS 0370

Tensile and compression testing on bolt and nut

Setup fee per test series

Cost per sample

Different tensile and pull-out tests

Hardness tests / hardness profile measurements

Vickers hardness and microhardness test* per sample (3 indentations)

Case hardness*, Decarburization* test per sample (5 indentations + core hardness)

* Sample preparation not included; additional cost can be found in the non-accredited test section

Friction coefficient testing / torque analysis, screw in test

Determination of the tightening properties for 12 samples

Determination of the torque and angle controlled tightening

Coating thickness measurement

XRF Coating thickness measurement (10 samples)

Material composition using spectral analysis (ICP-OES)

Setup fee standard sample ($\geq \varnothing 15\text{mm}$)

Setup fee small sample ($< \varnothing 15\text{mm}$)

Measurement per sample

Salt spray test

10 samples including photo documentation before and after the test

24 hours	240 hours
48 hours	480 hours
72 hours	720 hours
96 hours	1'000 hours
144 hours	Each additional photo

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Non-accredited tests

Description

Sample preparation of steels (cutting maximal 2 cuts, mounting, grinding and polishing) price for different material on request

Rockwell hardness per sample (3 indentation)

Engineering Services

Bolt calculation according to VDI 2230

Standard materials at room temperature (RT)

Special material at RT or standard materials not at RT

Special material not at RT

Technical consulting

Technical consulting at customer site

Travelling time to customer site

Failure analysis

IMDS-entry (International Material Data System for automotive industry)

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