

**The laboratory is accredited for Environmental Testing and other test methods
in accordance with DIN EN ISO / IEC 17025**

THE LABORATORY PROVIDES SERVICES AS FOLLOWS

CLIMATIC TESTS

- Cold down to $-75\text{ }^{\circ}\text{C}$ in acc. with DIN EN 60068-2-1
- Dry heat up to $200\text{ }^{\circ}\text{C}$ in acc. with DIN EN 60068-2-2
- Change of temperature with specified rate of change
Climatic-Stress-Screening with rates of change up to 10 K/min in acc. with DIN EN 60068-2-14
- Thermal shock air / air
in the range of $-75\text{ }^{\circ}\text{C}$ / $200\text{ }^{\circ}\text{C}$ in acc. with DIN EN 60068-2-14
- Damp heat, steady state and cyclic in acc. with DIN EN 60068-2-30
-2-67, -2-78
- Composite temperature / humidity cyclic test in acc. with DIN EN 60068-2-38

CORROSION TESTS

- Test with general condensation of moisture
with or without Sulphur dioxide in acc. with DIN EN ISO 6988, DIN 50018,
DIN EN ISO 6270-2 (replacement of DIN 50017)
- Salt spray tests, steady state or cyclic in acc. with DIN EN 60068-2-11, -2-52,
DIN EN ISO 9227 (replacement of DIN 50021)
- Flowing Mixed gas tests
 - > atmospheres containing Cl_2 , NO_2 , H_2S , SO_2 in acc. with DIN EN 60068-2-60, method 1 to 4
 - > atmospheres containing H_2S , SO_2 in acc. with DIN V 40046-36 and -37

MECHANICAL TESTS

- Vibration with or without climate profile, slip table
 - Sine nominal power 35 kN in acc. with DIN EN 60068-2-6
 - Random in acc. with DIN EN 60068-2-64
 - Mixed Mode (Sine on Random) in acc. with DIN EN 60068-2-80 / ISO 16750-3
- Shock up to 100 g_n / 6 ms in acc. with DIN EN 60068-2-27
- Bump in acc. with DIN EN 60068-2-29
- Topple and Free Fall in acc. with DIN EN 60068-2-31 (-2-32)

MICROBIOLOGICAL TESTS (FUNGI)

- Electronic components in acc. with DIN EN 60068-2-10 / BMW GS 95003-5
- Plastics in acc. with DIN EN ISO 846 / BMW GS 95003-5
- Military technology in acc. with MIL-STD 810 G, Method 508.6
- Aviation electronic systems in acc. with RTCA/DO-160G, Section 13
- Textiles in acc. with AATCC test Method 30

TESTING the DEGREES of PROTECTION provided by the enclosure IP – CODE

- General IP 3X to 6X and IP X1 to X8 in acc. with DIN EN 60529 (VDE 0470-1)
- Automotive incl. IP 6KX, X6K and X9K in acc. with ISO 20653 DIN (replacement of 40050-9)

TESTING of DEPOSITS and COATINGS

- Thickness measurement
- Adhesion testing by cross cut
- Deformability and hardness testing

MISCELLANEOUS TESTS for example

- Needle flame test in acc. with DIN EN 60695-11-5
- Immersion in cleaning solvents in acc. with DIN EN 60068-2-45
- Solderability tests in acc. with DIN EN 60068-2-20
- Chemical Resistance e.g. in acc. with BMW GS 95003-5

OTHER SERVICES IN THE NON ACCREDITED LABORATORY SECTION

- Generating of test programmes
- Weakness and reliability tests in connection with projects e. g.
- Type approval and acceptance tests
- Declarations on the environmental suitability for product performance data
- Analysis of damages

Contact Person

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