

Ciba[®] Testing Services

Packaging Testing



- Accredited EN ISO 17025 testing laboratory for dangerous-goods packaging and quality testing on corrugated fiberboard
- Technical consultation
- Design acceptance tests on packages and FIBCs
- Testing of packaging means and materials

Ciba® Testing Services help you achieve compliance, efficiencies and sustainable success.

Transporting of dangerous goods is governed by international regulations based on UN recommendations, namely RID for rail transport, ADR for road transport, the IMDG code for sea transport and ICAO-TI, IATA-DGR for air transport. Under these regulations, the packages have to pass specific design-type tests before they are approved for transport. The tests have to be performed by qualified laboratories with EN ISO 17025 accreditation. Within Switzerland, internationally valid approval is issued by the Swiss Federal Inspectorate of Dangerous Goods (EGI).

As an accredited testing laboratory for dangerous-goods packages (accreditation number STS 187), we offer our expertise in carrying out the specific design-type tests for packages and flexible IBCs. The scope of our accreditation includes initial and recurrent inspection of all other IBCs. Furthermore, we have a number of additional test facilities, as well as ex-proof chambers with climate control and sub-zero conditions. We can determine the properties of packages, packaging materials and accessories in line with international standards or your specifications.

Our testing laboratories developed and grew in the chemical industry. You can benefit from our long experience in testing dangerous-goods packages. Use our know-how and our facilities for your success.

We test packages such as drums, canisters, boxes, sacks and IBCs used in the chemical and pharmaceutical industries mainly for transporting dangerous goods. Some of our packaging testing services include:

Accredited tests RID/ADR references on packages (appendix V/A.5)

- Conditioning, RID/ADR 6.1.5.2
- Drop test, RID/ADR 6.1.5.3
- Leakproofness test with air, RID/ADR 6.1.5.4
- Internal pressure test (hydraulic), RID/ADR 6.1.5.5, IATA-DGR 5.0.2.9 and 6.3.5
- Stacking test, RID/ADR 6.1.5.6
- Box compression test, DIN 55 440-1, part 1
- Permeability test, RID/ADR 6.1.5.8
- Chemical compatibility test on HDPE, laboratory method, RID regulation to RID 6.1.5.2.7

on flexible IBCs (appendix VI/A.6)

- Top lift test, RID/ADR 6.5.4.5
- Tear test, RID/ADR 6.5.4.10
- Stacking test, RID/ADR 6.5.4.6
- Drop test, RID/ADR 6.5.4.9
- Topple test, RID/ADR 6.5.4.11
- Righting test, RID/ADR 6.5.4.12

on corrugated fiberboard and paper

- Mass per unit area (grammage), SN EN ISO 536
- Puncture test, ISO 3036, DIN 53142
- Bursting strength acc. to Mullen, ISO 2759, DIN 53141
- Edge crush resistance, SN EN ISO 3037
- Water absorption test (Cobb method), SN EN 20525, ISO 535
- Glue bond test, ISO 3038, DIN 53133

Initial and periodic tests of rigid IBCs (appendix VI/A.6)

- Leakproofness test, RID/ADR 6.5.4.7
- Inspection, RID/ADR 6.5.4.14



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STS 187

Ciba® Expert Services
Our Knowledge – Your Advantage

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Packages

- Weight of package
- Vibrations test (transport simulation)
- Residual content after discharge VPA 4 (VCI)
- Test under reduced pressure, DIN EN ISO 2873
- Stress crack test
- Water spray test, DIN EN ISO 2875
- Immersion test
- Water absorption in tropical climate
- Ultrasonic test

Plastic and sheet metal

- Density, DIN 53479
- Melt flow index of thermoplastics
- Thermal analysis of plastics
- Tensile test, DIN EN ISO 527

Packaging films, adhesive tapes, and labels

- Thickness test, ISO 534, ISO 3034
- Tensile test, seam strength, DIN EN ISO 527
- Tensile impact test, DIN EN ISO 8256
- Tear strength, EN 21974
- Bond strength, DIN 55477
- Test of adhesive labels in sea water
- Influence of climatic changes on adhesion of labels

Goods transported

- Determination of repose angle, DIN ISO 4324
- Determination of bulk density
- Compacting test

For more information:

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