

In the plant to be inspected, all of the following testing equipment **must** be available and functioning properly:

1. Temperature-measuring instrument
2. Conductivity tester
3. Two coating-thickness testers that operate in accordance with the eddy current method (DIN EN ISO 2360).
4. Equipment for testing bonding strength using the cross-cut method (DIN EN ISO 2409).
5. Machines for carrying out the drilling and sawing test.
6. A device with different mandrels to test bending resistance (mandrel bend test in accordance with DIN EN ISO 1519).
7. Equipment to measure the Erichsen cup depth in accordance with DIN EN ISO 1520.
8. For coatings based on:
 - a) Powder: An impact tester (ASTM D 2794) with a 15.9 mm diameter ball.
 - b) Liquid lacquer: A laboratory drying cabinet, continuously variable up to at least 150 °C.
9. A reflectometer that conforms to DIN 67 530 (with 60° viewing geometry to measure the stipulated reflectometer value).
10. An analytical balance (accuracy of measurement 0.1 mg) to determine the etching loss and the weight of the conversion coating / passivation layer.
11. Temperature indicator strips for the adhesive-water dryer.
12. A through-flow type measuring device with at least three probes on the object for recording temperature and time in the curing oven.
13. Fixed chart recorder for continuous measurement and recording of the convection-air temperature in the curing oven at a minimum of three relevant measuring points.
14. Premium coaters require a colour-measuring device.
15. For alternative pre-treatment products: a device to measure the weight of the film in accordance with the instructions of the manufacturer of the pre-treatment chemicals.