

CHIP RESISTANCE TEST FOR PAINTED PANELS

Application

This test method is used to determine the relative chipping resistance of paint applied to body surfaces.

Apparatus Required

Paint Chip Resistance Tester (Gritometer) - Model 755

Source: Ford Motor Company
Body & Chassis Engineering
P.O. Box 2053, Rm 1064
Dearborn, MI 48124 USA
Tel: 313-323-1477

Evaluation Standards

Ten 8 1/2 x 11 inch colored photographs

Source: Ford Motor Company
Global Materials & Fastener Standards
20000 Rotunda
P.O. Box 3033
Dearborn, MI 48121-2053 USA
Tel: 313-337-6836

Materials Required

Chilled Iron Grit "Diamant"

Angular, 4 - 5 mm size, rust free. DIN 8201

Source: Eisenwerke Wurth Gmoh
D-7101 Bad Friedrichshall/Jagstfeld
Germany

Date	Action	Revisions
2001 03 20	Revised	Editorial – no technical change A. Cockman
1991 11 20		

Printed copies are uncontrolled

Page 1 of 4

Copyright © 2001, Ford Global Technologies, Inc.

Conditioning and Test Conditions

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Procedure

1. Age test panels according to applicable engineering material specification.
2. Blast the test panels at a steady uninterrupted period of 20 - 30 seconds with 270 cc of the iron grit using an air pressure setting of 275 kPa.
3. Evaluate tested panels by comparison to Figures 1 through 10 on pages 3-4, or by using colored standard photographs.
4. The paint chip resistance tester (Gritometer) at Ford Motor Co., Body Engineering, is the standard to which all Gritometers must conform in effectiveness. For standardization, air pressure may require adjustment to show equivalent results to the Ford Gritometer.

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.