

BUFFING OF STAINLESS STEEL FOR CORROSION TESTS

Application

This procedure is used to prepare stainless steel material for exposure to corrosion tests.

Apparatus

Buffing Wheels

No. 1 wheel material.

Source: W. Canning & Co. Ltd.
Great Hampton Street
Birmingham B18 6AS

or equivalent.

Construction - Airflow Buffs No. 2662, size 406 mm dia, type 2J (medium) by four sections (approx 63 mm wide).

Wheel Load - 133 N applied normal to the work surface (2.1 N/mm wheel width)

Wheel Speed - 1800 r.p.m., 2430 m/minute peripheral speed.

Buffing Compound

Liquid Hyfin Catalog No. 3434.

Source: W. Canning & Co. Ltd.

A 2 g shot is applied directly to the wheel at the start of each pass. The compound shall be applied by pressure spray method with the nozzle adjusted to produce a spray covering the entire width of the wheel with a minimum of overspray.

Buffing Machine

Table speed 5.5 m/minute.

The buffing machine must be capable of satisfying the above conditions.

Date	Action	Revisions
2000 08 11		Editorial – no technical change A. Cockman
1994 02 28		

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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. Cut samples approximately 100 x 200 mm from the coil.
2. Clamp the sample in the buffing machine and make three passes under standard conditions. Two passes are made against the direction of wheel rotation and the final pass with the direction of wheel rotation.

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.