

SCRATCHING / CORROSION

SIKKENS CC3000 SCRATCHER



For cutting the panel prior to the corrosion test.



STANDARDS

ISO 17872 · ISO 9227 / DIN ISO 9227 · ISO 12944-6:2018 · Daimler Chrysler (OEM specification)

The NK Sikkens CC3000 Scratcher is a precision cutting tool designed to make incisions in coated panels or test specimens, in accordance with the requirements of salt spray chamber corrosion testing. Its tilting head design and ergonomic handle allow for uniform cuts down to the substrate with minimal effort and high repeatability, ensuring that the cut reaches the metal substrate without damaging it.

Compatible with three interchangeable blade widths (0.5 mm, 1 mm and 2 mm), the NK-CC3000 meets the specifications of Daimler Chrysler, the original Sikkens version and the 2018 update to ISO 12944-6, respectively.

APPLICATION

- **Salt spray testing:** preparation of test specimens for corrosion chambers in accordance with ISO 9227 / DIN ISO 9227.
- **Evaluation of paint systems:** verification of corrosion resistance in accordance with ISO 12944-6:2018 for steel structures.
- **Automotive specifications:** 0.5 mm blade scratch tests in accordance with Daimler Chrysler and equivalent OEM specifications.
- **Quality control of coatings:** industrial paint, galvanising and surface treatment laboratories.
- **Accreditation and certification:** laboratories requiring reproducibility in the preparation of the test incision.

GENERAL FEATURES

- Tilting head that compensates for hand movement, ensuring a uniform cut at a constant depth.
- Integrated blade support that facilitates positioning and guiding the cut across the panel.
- Ergonomic, low-effort handle that reduces operator fatigue during repetitive testing.
- Three interchangeable blades: 0.5 mm (Daimler Chrysler), 1 mm (original Sikkens) and 2 mm (ISO 12944-6:2018).
- Replacement blades available individually to extend the service life of the equipment.
- Complies with ISO 17872 (marking procedure for coatings for corrosion testing).

SCRATCHING / CORROSION

SIKKENS CC3000 SCRATCH TESTER

TEST PRINCIPLE

Prior to the salt spray corrosion test, a straight incision is made in the coated panel using the NK-CC3000 scoring tool. The cut must be clean, continuous and reach the metal substrate along its entire length. Following exposure to salt spray, the extent of corrosion and delamination of the coating from the edge of the cut is assessed in accordance with the applicable standard.

If the cut does not reach the substrate, the test results are invalid. In this case, the blade must be inspected and replaced if it shows signs of wear.



APPLICABLE STANDARD

- **ISO 17872:** Paints and varnishes — Guidelines for marking metal plates through coatings for corrosion testing.
- **ISO 9227 / DIN ISO 9227:** Corrosion testing in artificial atmospheres — Salt spray test.
- **ISO 12944-6:2018:** Paints and varnishes — Corrosion protection of steel structures by paint systems — Part 6: Performance test methods (2 mm blade).
- **Daimler Chrysler (OEM specification):** 0.5 mm blade scratch test for coatings on automotive components.

MODELS AND ACCESSORIES

Sikkens CC3000 Scratch Tester

Code	Description
NK-CC3000-1	Sikkens CC3000 scraper with 1 mm blade (original Sikkens version)
NK-CC3000-2	Sikkens CC3000 scratch tester with 2 mm blade (ISO 12944-6:2018)
NK-CC3000-3	Sikkens CC3000 scratch tester with 0.5 mm blade (Daimler Chrysler)

Spare parts

Code	Description
NK-CC3000-C1	1 mm flat blade for Sikkens CC3000
NK-CC3000-C2	2 mm flat blade for Sikkens CC3000
NK-CC3000-C3	0.5 mm flat blade for Sikkens CC3000

