

- Heat-shrink technology
- Test equipment
- Consultancy

Information of the TVAB 5420-7N-25 TT abrasion resistance test device

Quotation: 08-02-2024



TVAB 5420-7N-25-TT Abrasion resistance test device for tape and sleeves

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PTL BV

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IBAN code NL14 ABNA



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Price

Part no.

Description

TVAB5420-7N-25-TT Tape Abrasion test device

Electrical set up: 220-240V 50Hz *Including following parts*:

- Programmable cycle counter
- 5 mm Mandrel, including holder
- 10 mm Mandrel, including holder
- Needle wire holder for 0,45 mm wire
- 1 Roll of 10 m of needle wire 0,45mm.
- Load for vertical force 7N
- Tool kit, including:
- 3 Loads of 1N for vertical force
- 5 Allen wrenches 1,5-4,0 mm
- 1 Brush
- 1 Pail of rutting pliers
- 1 Calibration pin 1,5mm
- Solid Transportation box

Other parts

Description

TVAB5420-7N Load for vertical force 7N TVAB5420-4N Load for vertical force 4N TVAB5420-1N Load for vertical force 1N

TVAB5420-045 Needle wire 0.45mm (10mtr reel)

Footprint of the test device

: Approx. 300 mm wide, 450mm long, 400mm height.

Weight : approx. 13 kg

Team PTL

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Introduction

In close cooperation with an accredited laboratory of the German automotive industry, the TVAB 5420-7N-25-TT test device has been developed for testing of the abrasion resistance durability of tapes and braided sleeves.

The tests are based on the standards ISO 6722, LV 112, GWM 14327, GWM 16740 and LV 312-1.

The testing can be performed on various tapes and sleeves, with exception of certain types of very soft and very tough materials.

The principal of the testing operation is built on simulating the scraping of the tape or sleeve against a sharp metal edge.

The tape or braided sleeve is positioned on the mandrel. In case of tape: one layer of the tape to be tested is adhered, in the longitudinal direction onto a metal mandrel (having a diameter of 5mm or 10 mm), which then will be positioned in a special holder/fixture in the testing device.

A loaded abrasion tongue effects the abrasion of the sleeve or tape with a well-defined needle wire moving forwards and backwards along the tape, which is to be tested.

The resistance to abrasion is determined by the number of cycles that are performed before the sleeve or tape has been worn away.

The test device stops automatically at the moment that the needle wire touches the metal mandrel under the sleeve or tape. At the moment the needle wire touches the mandrel a short-circuit is formed.

The number of cycles can directly be noted from the counter on the equipment.

After each individual test, the needle wire shall be replaced/renewed.

The abrasion test takes place in the middle of the sleeve or tape. The mean value is determined from 10 individual measurements.

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