hawo

LIFE SCIENCE 4.0

ht150SCD:2019

V.1.0

TESTING DEVICE FOR THE DETERMINATION OF THE SEAL SEAM STRENGTH FOR SEALABLE POUCHES AND REELS (SBS)*

ht 150 SCD:2019

For sealable pouches and reels (SBS) the EN 868-5: 2018/ASTM F88/F88M standard requires a minimum seal seam strength of 1.2/1.5 N/15 mm. In addition the DGSV-guideline (German Society for Sterile Supply) requires the determination of the seal seam strength within the validation according to EN ISO 11607-2:2019, as well the guidelines of the World Health Organisation and the guideline of the World Federation for Hospital Sterilisation Science (WFHSS) asking for routine controls. With the ht 150 SCD:2019 seal seam test device such measurements can be simply and routinely carried out — independently from the type and function of the sealing device making the seal and independently of the type of sealing seam.

PROCESS CYCLE

Cut out of the dry test sample of 15mm width at 90° to the seal seam with integrated guillotine apparatus

Simulation of the peeling process with a speed of 200 mm/min

Recording of the seal seam strength results

Evaluation and documentation of the application results

ht 150 SCD:2019

[1] according to EN ISO 11607-1:2019 and ISO/TS 16775/EN 868-5:2018, appendix D/ASTM F88/FM

ht 150 SCD:2019 STAND ALONE

In Stand Alone operation, the unit can be easily operated via the menu guided membrane keyboard. The measured tensile strength values maximum strength, minimum strength, average of strength and number of minimum strength values over the sealing seam width in % are reported on the display. Storage of 10 measurement values with consecutive numbering.

hs 150 PC PC-SOFTWARE INCLUSIVE

The ht 150 SCD:2019 can be operated via the software hs 150 PC. The measured seal seam tensile strengths are displayed on the PC screen numerically and as a gradient. All measurements can be stored on the PC and can be printed on an PC/Laptop standard printer.

Information on the measuring equipment:

> *Details on the sealing machine (type, serial number)*
> *Information on the packaging material*
> *Details on sealing seam (type, width, structure)*
> *Details of the process parameters*
> *Sampling position of the test samples*
> *Graphic representation of the devolution of the strength*
> *Measurement data*

APPLICATION AREA

> *Routine testing of the seal seam strength according to EN 868-5:2018, appendix D, test method ASTM F88/ F88M*
> *Operational Qualification (OQ) in the context of validation according to EN ISO 11607-2:2019*
> *Performance Qualification (PQ) in the context of validation according to EN ISO 11607-2:2019*
> *Acceptance test made during the purchase of sealable pouches and reels.*
> *All kind of manufacturers' mechanically produced seal seam*

SCOPE OF SUPPLY

> *Sealing seam testing device ht 150 SCD:2019 incl. transport protection*
> *hawo PC-software hs 150 PC*
> *Calibration weight with adapter for routine calibration*
> *RS 232 zero modem data cable for PC/Laptop connection*
> *Protective gloves*
> *Aluminium transport case*

ACCESSORIES

hm 2000 C

A label printer hm 2000 C (option) can be connected via RS 232 serial interface to print out of gardient including scale.

ht 150 LED

ht 150 L LED bench magnifier for visual inspection (incl. USB charging cable).

SERVICES

Calibration service with certificate according EN ISO 7500-1.

MODIFICATIONS

Clamping levers for blisters on request.

	ht 150 SCD:2019
CONNECTION DATA	
Mains connection	230/115 V
Mains frequency	50/60 Hz
Power consumption max.	45 W
MECHANICAL DATA	
Dimensions L x W x H	460 x 200 x 270 mm (18.1 x 7.9 x10.6 in)
Weight	9.5 kg (20.4 lbs)
Housing cover	Stainless steel AISI 304
Housing bottom	Metal, powder-coated
Cutting length	190 mm
Transport case aluminium L x W x H	510 x 320 x 380 mm (20.0 x 13.6 x15.0 in)
Total weight with case and accessories	16.5 kg (36.4 lbs)
PROCESS PARAMETERS	
Testing speed si	200 ±10 mm/min
Testing speed fps	7.87 ± 0.39 in/min
Tensile force si	10 N
max. Tensile force fps	2.25 lbf
ELECTRONICS AND COMMUNICATION SYSTEMS	
System	Microprocessor
Interfaces	RS-232
Transfer speed (baud rate)	9,600 Bd
Electrical protection class	1
ENVIRONMENTAL PARAMETERS	
Ambient temperature	10-35 °C (50-77 °F)
Heat output	0.001 kJ/s
Relative humidity	30-80 % non-condensing
Noise intensity acc. to Machinery Directive 2006/42/EC Appendix I 1.7.4.2 u.	< 70 dB/A
AVAILABLE ACCESSORIES	
hm 2000 C (label printer)	x
ht 150 PP (cutting tong incl. transport case)	x
ht 150 L (LED bench magnifier)	x
SERVICE	
Calibration service with certificate according EN ISO 7500 - 1	x

Technical modifications reserved
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