

MS-110 Thin-Film Thermal Test Lead

For Calibration of Medical Device Impulse Sealers

Overview

The **MS-110 thin-film thermal test lead** is a proprietary thermocouple designed specifically for use with all impulse sealers sold by Van der Stahl Scientific. Engineered for precision and durability, the MS-110 allows technicians to gather accurate thermal data directly from the sealing platen—without scratching, denting, or otherwise damaging the sealing surface.

Each MS-110 is individually verified in our **ISO 17025 accredited laboratory**, where it is tested in a calibrated dry well across three to five static temperature points. This ensures that every test lead meets strict accuracy requirements before it leaves our facility.

About the MS-110 Thermocouple

The MS-110 is a ribbon-style **Type K metal thermocouple** (nickel-chrome / nickel-aluminum) designed to deliver highly responsive thermal readings during impulse sealer calibration. Its thin-film construction allows it to sit flush against the sealing platen, ensuring consistent thermal transfer and reliable measurement.

We recommend annual reverification of the MS-110 across a range of temperatures to maintain the accuracy and performance outlined in the specifications below.

Key Features

- Designed for all Van der Stahl Scientific impulse sealers
- Thin-film ribbon construction protects sealing surfaces
- Individually verified in an ISO 17025 accredited lab
- Optimized for accurate platen temperature measurement
- Suitable for routine calibration and validation workflows



Specifications

Thermocouple Type		
Type K	Metal ribbon thermocouple • Nickel-chrome / nickel-aluminum	
Physical Dimensions		
Length	20 mm	
Width	5 mm	
Thickness	0.07 mm	
Performance		
Class 2 tolerance		
Temperature tolerance	±2.5°C	
Operating range	-40°C to 300°C	
Thermoelectromotive force tolerance	0 to 400°C ±2.5°C	
Lead Wire		
K-type thermocouple wire	KS1E	
Diameter	0.32 mm	
Color coding	Negative	White
	Positive	Red
Cord length	2000 mm	

van der stahl
SCIENTIFIC

Connecting medical device packaging to patient safety.

Call Customer Care: 800-550-3854