

## TSP – Smoldering Test Device

Measurement method	Determining a building product's propensity to undergo continuous smoldering in accordance with DIN EN 16733:2016
Sample dimensions (L x W x T)	800 mm x 300 mm x ≤ 100 mm
Sample holder	<ul style="list-style-type: none"> <li>▪ Frame, stainless steel (H x W): 850 mm x 300 mm</li> <li>▪ 4 clamp holders for sample, stainless steel</li> <li>▪ 2 pads: 50 mm x 50 mm x 100 mm</li> <li>▪ Support plate for 6 thermocouples</li> </ul>
Burner	<ul style="list-style-type: none"> <li>▪ Horizontally arranged Teclu burner</li> <li>▪ Linear profile rail guide with adjustable stop and protective cover</li> <li>▪ Flow meter with regulator</li> </ul>
Gas for burner	Propane gas: ≥ 95% purity, mass flow: 100 g/h ±5 g/h*
Thermocouples	<ul style="list-style-type: none"> <li>▪ 6 NiCrNi type K mantle thermocouple, Ø 1.5 mm (sample)</li> <li>▪ 1 NiCrNi type K mantle thermocouple, Ø 1.5 mm (air)</li> </ul>
Construction	<ul style="list-style-type: none"> <li>▪ Support plate, stainless steel, adjustable feet</li> <li>▪ Holder for rail guider</li> <li>▪ Holder for flow meter</li> <li>▪ Module for data logging                             <ul style="list-style-type: none"> <li>- 8 thermo-voltage inputs</li> <li>- 1 USB interface</li> </ul> </li> </ul>
Operating conditions	Temperature: 20°C ±10 K, relative humidity: 50% ±20%
Dimensions (W x D x H)	400 mm x 800 mm x 885 mm
Weight	27 kg
Scope of delivery	<ul style="list-style-type: none"> <li>▪ 1 base plate with sample holder</li> <li>▪ 1 Teclu burner with rail guide</li> <li>▪ 7 NiCrNi thermocouples</li> <li>▪ 1 module for data logging</li> <li>▪ 1 flow meter</li> <li>▪ 1 frame for samples with low thickness</li> <li>▪ 1 CaSi extinguishing plate, 850 mm x 350 mm x 10 mm</li> <li>▪ 1 manual, English</li> <li>▪ 1 software logger 2018</li> </ul>
Options	<ul style="list-style-type: none"> <li>▪ 1 digital anemometer</li> <li>▪ 1 grid box for loose material</li> <li>▪ 1 PC or notebook</li> </ul>

\* Gas to be provided by the user