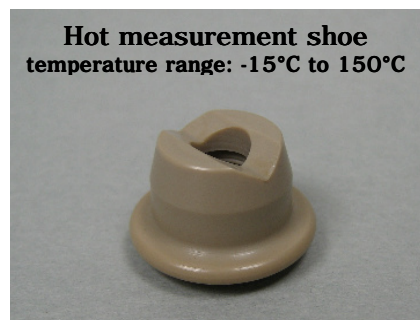


Coating thickness measurement on hot objects

Coating thickness gauges are mainly used in the technological fields of paint coating and galvanizing. The surface temperatures resulting from this are between 5°C and 40°C.

Standard attachment shoe

In this case the coating thickness probe can be used in the standard version with a measurement range of 1.5mm. The black probe shoe with the V-groove, contained in the delivery package, is sufficiently temperature resistant for measurements up to 60°C.



Hot measurement shoe

In order to carry out measurements on hot surfaces above 60° up to 150°C it is essential to replace the black probe shoe by the optional temperature resistant, beige coloured hot measurement probe shoe having a V-groove. Basically, the probe must not be positioned on a hot surface (greater than 80°C) for longer than 5 seconds otherwise this could cause probe damage. In a variety of measurement tasks a much higher temperature resistance might be preferable; e.g. the burning-in of powder coatings is normally made at temperatures ranging from 140°C to 200°C. By using temperature resistant probes the coating thickness measurement could be done during the

cooling phase at temperatures of approximately 110°C. The same also applies to inorganic layers in casting moulds which range up to temperatures of 300°C.



High temperature shoe

With the new optional high temperature shoe you are able to carry out reliable coating thickness measurements on hot surfaces up to 300°C. The required modification of the probe can be done subsequently by simply replacing the standard shoe by the high temperature shoe. Hot layers can be measured up to layer thickness of 1000 µm on steel as well as on non-ferrous metals, e.g. on aluminium.

By using the temperature resistant, beige-coloured high temperature shoe, the internal probe pole has a protective distance of approximately 400µm; the exact value is marked on the shoe. To determine the correct coating thickness after taking the measurement you must subtract this marked value from the displayed value. As an alternative to this, the offset value in the gauge can be set so that it corresponds to the protective thickness distance thus enabling the gauge to automatically display the correct coating thickness after every measurement.

Temperature resistant probe cable

During the coating thickness measurement on hot objects it is possible that the probe cable may slightly come into contact with the hot surface and cause the cable insulation to melt thus damaging the cable. If required, the probe cable (extra price 100.- Euro) can be fitted with an additional insulation which is resistant to high temperatures and therefore gives protection up to 300°C for a short time.

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