

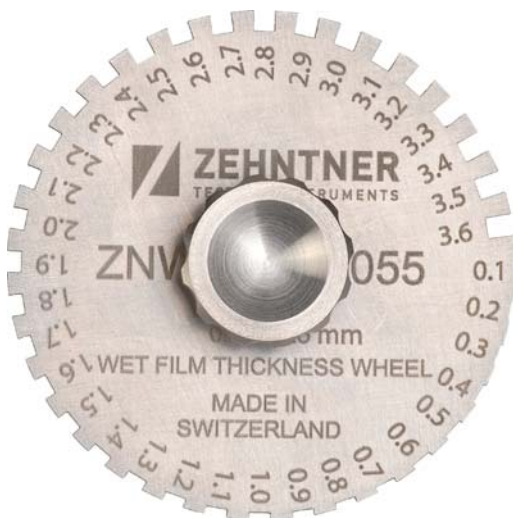
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Instruction manual

version 1.0 from 27.07.2006

ZNW 2055 Wet film thickness wheel



1. Safety precautions and warnings

1.1 Dangers



Attention!

This note is included in this instruction manual wherever it is warned about dangers which will arise to life and limb of persons if the apparatus is handled improperly. Observe these notes and be particularly careful in these cases. Also inform other users on all safety notes. Besides the notes in these instruction manual the generally applicable safety instructions and regulations for prevention of accidents have to be taken into account.



Caution

This note comprises instructions to be observed in order to comply with guidelines, instructions, notes and the proper procedure of the work, and to avoid damaging or destruction of the apparatus.

1.2 Notes regarding safety at work



The ZNW 2055 are exclusively designed for the determination of the thickness of all types of liquid coatings. Any other application is not in accordance with the regulations. The manufacturer is not liable for damage resulting from inappropriate application. The user bears the full responsibility.



Avoid any mode of operation that could affect the safe working with the ZNW 2055. Especially the determination of the thickness of all types of liquid coatings must take place as described in this operating manual.



Unauthorised modifications and changes of the ZNW 2055 are not allowed. These will invalidate the guarantee. The manufacturer is not liable for damages resulting from unauthorised modifications; the user bears the full responsibility.

2. Delivery of apparatus

2.1. Transportation damages

After unpacking the instrument, please look for any transport damage in case of which we kindly ask you to inform the insurance company and **ZEHNTNER GmbH TESTING INSTRUMENTS** respectively.

2.2. Extent of delivery

The following parts are included in the delivery:

- 1 comb gauge wheel with recessed grip
- 1 carrying case

2.3. Options

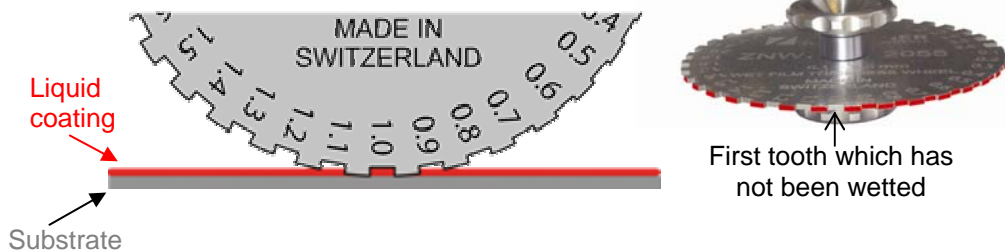
- individual company logo as from 25 pieces upwards
 - ACC 061 one-sided inscription
 - ACC 062 two-sided inscription
- ZKZ 026 calibration and certification (incl. certificate)

3. Features

- The comb gauge wheel is a disc with a series of contact areas and teeth. The outer contact areas bear on the substrate. The inner teeth in between are progressively shorter so that a range of gaps between the teeth and the contact area results. For each tooth the distance to the contact area is indicated.
- Besides plane standard substrates also suitable for small, convex and concave surfaces as well as edges.
- The comb gauge is easy to clean.

4. Handling

- Place the comb gauge wheel with the position of the highest test range firmly onto the substrate with the liquid coating.
- Roll the wheel in direction to the lowest scale value.
- Remove the comb gauge wheel and examine which teeth have been wetted by the coating.
- The wet film thickness of the coating is between the last wetted tooth and first tooth which has not been wetted (see the figure).
- Clean the comb gauge with solvent.



The figure shows that the tooth 0.9 mm has been wetted by the coating as the last tooth and that the tooth 1.0 mm has not been wetted. Thus, the wet film thickness of the coating is between 0.9 mm and 1.0 mm.

5. Technical specifications

Version	Test range
ZNW 2055.01	0.1 mm to 3.6 mm, scale division: 0.1 mm
ZNW 2055.05	5 µm to 180 µm, scale division: 5 µm
ZNW 2055.25	25 µm to 950 µm, scale division: 25 µm
ZNW 2055.50	25 µm to 2'000 µm, scale division: <300 µm: 25 µm; 300-1'000 µm: 50 µm; 1'000-2'000 µm: 100 µm
ZNW 2055.S	on request

Material: high-grade stainless steel
 Standards: DIN EN ISO 2808, ASTM D 4414
 Warranty: 2 years