Measurement Applications.

Standard features of the COULOSCOPE® instruments:

- 73 stored standard measurement applications for most metal coatings
- 14 stored standard measurement applications for coating thickness measurements on wires
- 2 stored standard measurement applications for STEP-Test measurements (only for instrument model CMS STEP).

If a standard measurement application is not available for your particular material combination, a special measurement application can be defined that is specifically adapted to your particular situation.

Calibration

During calibration, a correction factor (calibration factor) is determined. This correction factor may be required due to production tolerances in the cell gasket diameter, and to variations in coating material density or alloy composition of the coating material. For STEP-Test measurements a factor can be entered.

Applications

Applications are areas of memories where measurement application specific parameters (such as standard or special measurement application, calibration factor, unit of measurement, etc.) and the measurement data are stored. Applications can be copied, edited and deleted.

Standard measurement applications and electrolytes

A total of 89 standard measurement applications are available for various applications. The following table lists a selection of possible measurement applications. For multi-coating systems, the respective coating underneath the coating to be measured is considered the substrate material.

Coating materials	Substrate materials	Smallest measurable coating thickness in µm (µ")									Largest
		0.015	0.03	0.07	0.15	0.3	0.7 (28)	1.5	3 (120)	7 (280)	measurable
		Deplating rate [µm/min]									thickness
		0.10	0.20	0.50	1.00	2.00	5.00	10.0	20.0	50.0	µm [mils]
Ag	Fe, Ni, Al, non-metals					F4	F4	F4	F4	F4	50 (2)
	Cu				F8	F8	F8				
								F18	F18	F18	
	Cu, Ms				F17	F17					5 (0.2)
Cr	Fe, Ni, Al, non-metals	F1	F1	F1	F1	F1	F1	F1	F1		50 (2)
	Cu, Ms	F9	F9	F9	F9	F9	F9	F9	F9		
Cu	Fe, Ni, Al, non-metals				F4	F4	F4	F4	F4		50 (2)
	Ms, Zn, Zn die casting					F5	F5				10 (0.4)
Ms	Fe		F4	F4	F4	F4	F4	F4	F4		50 (2)
Ni	Fe, Al, Cu, Ms, non-metals					F6	F6	F6	F6		50 (2)
Ni-Fe	Fe, Cu, Ms, Zn, Sn						F6	F6	F6		
Ni electroless	Fe, Al					F7	F7	F7			
Pb	Fe, Cu								F4		50 (2)
Sn	Al				F1	F1	F1	F1	F1		50 (2)
	Fe, Ni, Cu, Ms, non-metals				F9	F9	F9				
							F12	F12	F12		
Sn ₆₀ Pb ₄₀	Fe, Ni, Al, Cu, Ms, non-metals				F4	F4	F4	F4	F4		50 (2)
Zn	Cu, Ms					F10	F10	F10	F10		- 50 (2)
	Fe, Ni, Al					F11	F11	F11	F11		
		Wire n	neasurei	nent ove	erview to	able					
Ag	Cu wire					F8					4 (0.16)
Cu	Fe-, Ni wire		F4	F4	F4						2 (0.08)
Ms	Fe wire				F4						2 (0.08)
Ni	Fe wire					F6	F6				10 (0.4)
Sn	Cu wire					F12	F12				10 (0.4)
Sn ₆₀ Pb ₄₀	Cu wire				F4	F4	F4	F4			20 (0.8)
Zn	Fe wire						F11				10 (0.4)
		STEP-Test	t measur	rement o	verview	table					
Multiple nickel coating system as shown in the figure on page 5							F22		F22		40 (1.6) coating
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