



Probe models	FGAB1.3	FGAB1.3L5	FGAB1.3T	FGAB1.3TL5
Part no.	604-141	604-544	604-182	604-418
Applications	Measurement of electrically non-conductive and non-ferrous metal coatings on steel or iron base material (NC/Fe and NF/Fe). The probes are well suited for measurements of electroplated metal coating thicknesses. However, measurement data variation is relatively high on rough (e.g., sand-blasted) surfaces. For such cases we recommend special probes for measurements on rough surfaces from our probe program.			
			equipped with a temper	the model designation be erature-resistant plastic its on specimens with sur o + 80 °C (176 °F).
Examples	Steel or iron base materials (Fe)			
	 Paint, varnish or plastic coatings on steel or iron (NC/Fe) 			
	Copper, brass, zinc, tin and chrome coatings on steel or iron (NF/Fe)			
Probe design	Axial single tip probe with spring-loaded measuring system			
Applications	NC/Fe or NF/Fe			
*	The values for measurement range, trueness, repeatability precision and measurement errors are valid for electrically non-conductive coating materials on steel or iron (NC/Fe). The values may differ for measurements on non-ferrous coating materials (NF).			
Measurement range*	Steel or iron base materials (Fe)			
	0 2000 μm / 0 2	78.74 mils		
Trueness*	Steel or iron base materials (Fe)			
based on Fischer standards	0 100 μm: ≤ 1 100 1000 μm: ≤ 1 1000 2000 μm: ≤ 3	% of reading		
	0 3.94 mils: ≤ 3.94 39.37 mils: ≤ 39.37 78.74 mils: ≤	1 % of reading		
Repeatability precision*	Steel or iron base materials (Fe)			
based on Fischer standards	0 100 μm: ≤ 0.3 100 2000 μm: ≤ 0.3	•		
	0 3.94 mils: ≤ 0 3.94 78.74 mils: ≤ 0			
Influences*	Probe models FGAB	1.3 and FGAB1.3L5	Probe models FGAB	1.3T and FGAB1.3TL5
The following values are val	lid for a reference coati	ng thickness of 75 µm / 2.95	5 mils and steel or iron l	pase material.
Curvature (R), measuremen	t with reference to mas	ter calibration on flat surface	e	
Measuring spot	Measurement error ≥ 10 % for R ≤ 15 mm	/ R≤0.6"	Measurement error ≥ 10 % for R ≤ 14,5 m	m / <i>R</i> ≤ <i>0.57</i> "
	Probe needs a minimum of R = 5 mm (support stand necessary) $/$ R = 0.2 "			
Curvature (R), measuremen	t with reference to mas	ter calibration on flat surface	 9	
Measuring spot	Management	10 % for R < 8 mm / R <	0.00 "	

Coating Thickness III Material Analysis V Microhardness Q Material Testing

Measurement error \geq 10 % for R \leq 8 mm / R \leq 0.32 " Probe needs a minimum of R = 1 mm (support stand necessary) / R = 0.039 "