

Calibration certificate - Test report

according to EN 10204 – 3.1

Scope of delivery:

**Hoffmann TAM Panel, Part Number: PT-Guard
P&W TAM 146040-1 Approved**

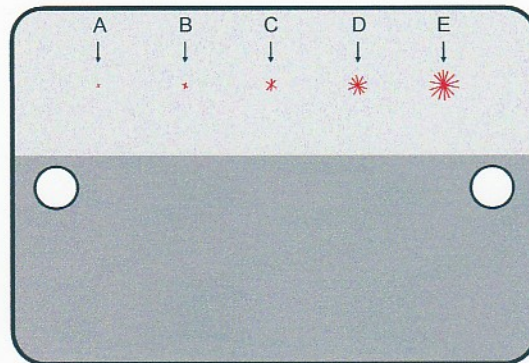
Serial number:


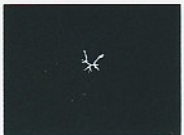



2016.07.6301

Test date:

18.07.2016

The Hoffmann TAM Panel is made from a stainless steel plate. Half of the test surface is 0.003" hard coated. Five crack centers are evenly spaced in the hard coated strip. The crack centers are circular patterns forming a star.



Crack no.	A	B	C	D	E
Photos: Magnification factor 1 : 2.6					
MEASURED SIZE	.022 inches	.053 inches	.080 inches	.143 inches	.209 inches
SPECIFICATION	.015 - .031 inches	.046 - .062 inches	.075 - .093 inches	.125 - .171 inches	.180 - .250 inches
MEASURED SIZE	0.56 mm	1.34 mm	2.03 mm	3.64 mm	5.31 mm
SPECIFICATION	.38 - .79 mm	1.17 - 1.57 mm	1.91 - 2.36 mm	3.18 - 4.34 mm	4.57 - 6.35 mm

For the measurement of diameter, we have used the Penetrant Type I, the Method D and the Sensitivity level 4:

Penetrant:

Magnaflux Zygo ZL-37 Post Emulsifiable Fluorescent Penetrant

Remover:

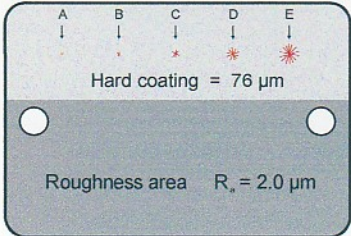
Magnaflux Zygo ZR-10B (20%) Hydrophilic Remover

Dry Developer:

Magnaflux Zygo ZP-4B Dry Powder Developer

crack depth	0.003" ± .00016"	76 µm ± 4 µm
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The unplated side is grit blasted to Ra = 2.0 roughness for washability / background test.

	Nominal roughness	R_a = 2.0 µm ± 0.3 µm
	Measured roughness	R_a = 1.8 µm

The Hoffmann TAM Panel is P&W TAM 146040-1 Approved.

Herewith we certify, that this Hoffmann TAM Panel has duly been tested and corresponds with the determinations described in Pratt and Whitney specification TAM 146040.

18.07.2016

Z. Hoffmann
Z. Hoffmann (Expert)

Hoffmann Precision Star TAM Panel



2016.07.18

Spec Sheet

www.pt-panel.com

Five crack centers forming a star
Specification Diameter:
Permissible tolerances

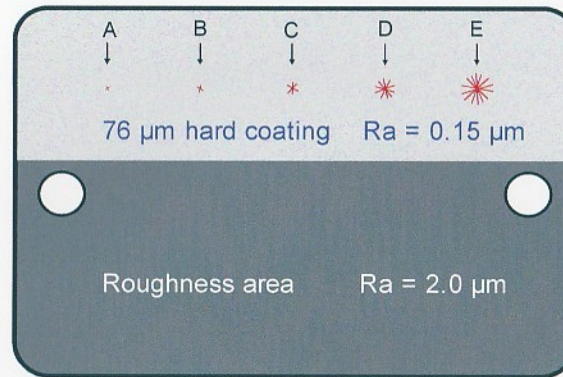
Crack depth in the hard coat

Hard coating area: Roughness R_a
Roughness area: Roughness R_a

Plate dimensions Tolerance: $\pm 3\%$

Plate thickness tolerance: $\pm 10\%$

Hoffmann TAM Panel P/N: PT-Guard
P&W TAM 146040-1 Approved



A	B	C	D	E
.015-.031 inches	.046-.062 inches	.075-.093 inches	.125-.171 inches	.180-.250 inches
0.38 - 0.79 mm	1.17-1.57 mm	1.91-2.36 mm	3.18-4.34 mm	4.57-6.35 mm

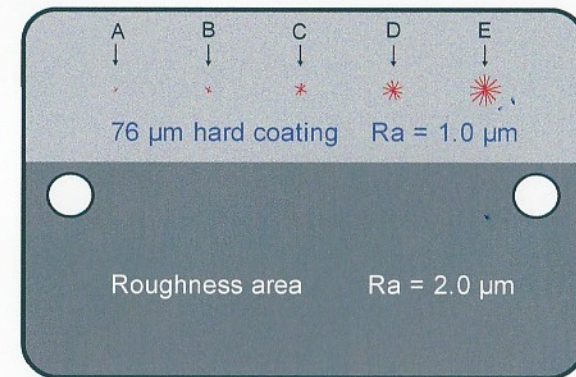
(.003" \pm .00016") 76 μm \pm 4 μm

$R_a = 0.15 \mu\text{m} \pm 0.10 \mu\text{m}$
 $R_a = 2.00 \mu\text{m} \pm 0.30 \mu\text{m}$

6" x 4" 152.4 mm x 101.6 mm

0.1" 2.5 mm

Hoffmann TAM Panel P/N: PT-Guard
P&W TAM 146040-2 Approved



A	B	C	D	E
.015-.031 inches	.046-.062 inches	.075-.093 inches	.125-.171 inches	.180-.250 inches
0.38 - 0.79 mm	1.17-1.57 mm	1.91-2.36 mm	3.18-4.34 mm	4.57-6.35 mm

(.003" \pm .00016") 76 μm \pm 4 μm

$R_a = 1.0 \mu\text{m} \pm 0.30 \mu\text{m}$
 $R_a = 2.0 \mu\text{m} \pm 0.30 \mu\text{m}$

6" x 4" 152.4 mm x 101.6 mm

0.1" 2.5 mm