

LAMINATION TOOLING

Serving the P.C. Industry Since 1977

TADCO 630 STAINLESS STEEL SPECIFICATIONS

■ Product description:

✓ **Steel Type:**

Type 630 stainless steel FH (full hard) with a #6 polished finish both sides. Polishing direction is parallel to the length dimension of the plates.

✓ **Roughness:**

#6 Polished: Rz ≤ 1.0µm (for reference Rmax ≤ 1.2µm)

✓ **Chemical Composition (%):**

C	Ni	Cr	Cu	Nb
≤ 0.07	3.00~5.00	15.50~17.50	3.00~5.00	0.15~0.45

✓ **Mechanical Properties:**

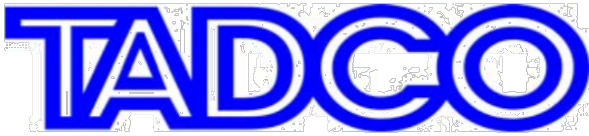
Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)	Hardness (HV)
1370(min)	1400(min)	2.0(min)	> 480

✓ **Physical properties:**

Mean Coefficient of Thermal Expansion		Thermal Conductivity	
20~100° C	20~400° C	0~150° C	0~400° C
11.6 (x 10 ⁻⁶ /° C)	12.2 (x 10 ⁻⁶ /° C)	0.18 (W/cm° C)	0.23 (W/cm° C)

✓ **Tolerances:**

Thickness Tolerance	Thickness Deviation	Width & Length		Diagonal Difference	Flatness
±0.1mm	≤ 0.05mm	Small plates	large plates	≤ 2mm	≤ 2mm
		+1.0mm/-0	+2.0mm/-0		



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✓ **Inspection Standards:**

Light Scratches	Bends	Pin Holes	Unevenness
No scratch deeper than 3µm. For scratches less than 3µm deep, there will be no more than one scratch longer than 10cm in a 300mm x 300mm area	No bends can be felt by hand	No pin hole bigger than 0.08mm ² . For pin holes less than 0.08mm ² , there will be no more than one pin hole in a 300mm x 300mm area	No unevenness

✓ **Marking:**

No marks on the plates.

✓ **Others:**

Edges will have burrs removed and will be chamfered. Corners will have a 5mm radius.

If required, Inspection Certificates concerning material composition, size of plates, and inspection standards will be provided.

For the thickness measurement, smaller plates will be measured at three points every 10 sheets, and larger plates will be measured at nine points.

Plates will be shipped with a foam sheet inner leaf between each plate.