ADDENDUM TO 2025 TAN SHEETS

Tempers for Aluminum and Aluminum Alloy Products Metric Edition **June 23, 2026**

New and Revised Registrations Since Publication of 2025 Tan Sheets

Registered			Product	Thickness, mm		Tensile Strength, MPa			Elongation Percent in[21]		Remarks[2]
Alloy Temper	By	Date		Over	Thru	Basis[1]	Ult.	Yield	50 mm	5D or 5.65 $\sqrt{A}$	
2050-O	Constellium	12/9/2025	Plate	40.0	80.0	*Max[9] *Min[9]	240 -	115 -	- -	- 17	*Tentative
2046-T84	Constellium	4/27/2026	Plate	12.50	40.00	*Min[6] *Min[9]	505 510	475 460	- -	8 6	*Tentative Solution heat treated and cold worked 3-4.5% and artificially aged.
				40.00	50.00	*Min[6] *Min[9] *Min[10]	495 505 490	460 450 420	- - -	8 5 2	<u>Stress Corrosion Resistance</u> For thicknesses 20.00-165.00 mm
				50.00	80.00	*Min[6] *Min[9] *Min[10]	490 495 490	460 450 420	- - -	7 5 2	Direct C-rings and Tensile specimen machined and tested in accordance with ASTM G47 shall show no evidence of stress corrosion failure when tested in the short transverse direction at 310 MPa and exposed for 30 days.
				80.00	100.00	*Min[6] *Min[9] *Min[10]	485 490 485	455 440 415	- - -	6 4 2	<u>Fracture Toughness</u>[14] - Min K_{IC}
				100.00	125.00	*Min[6] *Min[9] *Min[10]	485 490 475	455 440 405	- - -	5 2 2	For thicknesses over 12.50 thru 40.00 mm L-T direction 32 MPa√m T-L direction 32 MPa√m
				125.00	165.00	*Min[6] *Min[9] *Min[10]	475 490 470	450 435 405	- - -	4 2 2	For thickness over 40.00 thru 50.00 mm L-T direction 32 MPa√m T-L direction 29 MPa√m S-L direction 24 MPa√m
											For thickness over 50.00 thru 80.00 mm L-T direction 29 MPa√m T-L direction 25 MPa√m S-L direction 23 MPa√m

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Registered			Product	Thickness, mm		Tensile Strength, MPa			Elongation Percent in[21]		Remarks[2]
Alloy Temper	By	Date		Over	Thru	Basis[1]	Ult.	Yield	50 mm	5D or $5.65\sqrt{A}$	
											For thickness over 80.00 thru 100.00 mm L-T direction 26 MPa√m T-L direction 23 MPa√m S-L direction 21 MPa√m For thickness over 100.00 thru 125.00 mm L-T direction 25 MPa√m T-L direction 22 MPa√m S-L direction 20 MPa√m For thickness over 125.00 thru 150.00 mm L-T direction 24 MPa√m T-L direction 21 MPa√m S-L direction 19 MPa√m For thickness over 150.00 thru 165.00 mm L-T direction 24 MPa√m T-L direction 20 MPa√m S-L direction 18 MPa√m

Unless specified below, for all referenced footnotes refer to the Yellow and/or Tan Sheets as applicable.