ADDENDUM TO 2025 TAN SHEETS

Tempers for Aluminum and Aluminum Alloy Products Metric Edition **November 19, 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 √A	
2046-T84	Constellium	4/27/2026	Plate	12.50	40.00	*Min[6]	505	475	-	8	*Tentative
						*Min[9]	510	460	-	6	Solution heat treated and cold worked 3-4.5% and artificially aged.
				40.00	50.00	*Min[6]	495	460	-	8	
						*Min[9]	505	450	-	5	Stress Corrosion Resistance
						*Min[10]	490	420	-	2	For thicknesses 20.00-165.00 mm
				50.00	80.00	*Min[6]	490	460	-	7	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.
						*Min[9]	495	450	-	5	
						*Min[10]	490	420	-	2	
				80.00	100.00	*Min[6]	485	455	-	6	Fracture Toughness[14] - Min K_{IC}
						*Min[9]	490	440	-	4	
						*Min[10]	485	415	-	2	For thicknesses over 12.50 thru 40.00 mm
				100.00	125.00	*Min[6]	485	455	-	5	L-T direction 32 MPa√m
						*Min[9]	490	440	-	2	T-L direction 32 MPa√m
						*Min[10]	475	405	-	2	For thickness over 40.00 thru 50.00 mm
				125.00	165.00	*Min[6]	475	450	-	4	L-T direction 32 MPa√m
						*Min[9]	490	435	-	2	T-L direction 29 MPa√m
						*Min[10]	470	405	-	2	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
											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

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

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 √A	
											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
2050-O	Constellium	12/9/2025	Plate	40.0	80.0	*Max[9] *Min[9]	240 -	115 -	- -	- 17	*Tentative
2050-T62	Constellium	07/09/2026	Plate	40.00	70.0	*Min[9]	470	380	-	8	*Tentative Properties are from material that was aged in a laboratory or test furnace for response to heat treatment. <u>Stress Corrosion Resistance</u> For thickness 40.00 – 70.00 mm Tensile specimens 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.

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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 √A	
2050-T84	Constellium	09/21/2026	Extruded Rectangular Bar	25.00	50.00	*Min[6] *Min[9]	570 530	545 485	- -	6 5	*Tentative Solution heat treated and cold worked 3-4.5% and artificially aged. <u>Stress Corrosion Resistance</u> For thicknesses 25.00-125.00 mm Direct 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.
				50.00	80.00	*Min[6] *Min[9]	580 525	550 470	- -	5 4	
				80.00	100.00	*Min[6] *Min[9]	585 515	560 455	- -	5 4	
				100.00	125.00	*Min[6] *Min[9]	585 510	560 450	- -	4 3	
7050-T7451	AATD	08/12/2026	Plate	200.00	230.00	Max[6] Min[9] Max[10]	470 470 450	400 385 365	- - -	5 2 2	<u>Stress Corrosion Resistance</u> See footnote 4b. <u>Exfoliation Corrosion Resistance</u> See footnote 15c. Fracture Toughness[14] – Min K_{IC} or KQ For thickness over 200.00 thru 230.00 mm L-T orientation 25 MPa√m T-L orientation 22 MPa√m S-L orientation 23 MPa√m For thickness over 230.00 thru 250.00 mm L-T orientation 24 MPa√m T-L orientation 21 MPa√m S-L orientation 22 MPa√m
				230.00	250.00	Max[6] Min[9] Max[10]	460 460 440	395 370 360	- - -	5 2 2	

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