



Mercer Metals - Technical Data - Seamless Alloy Aircraft Tubing

Grade	Specifications		Condition	Mechanical Properties				
	MIL-T	AMS		TENSILE (PSI) OR HARDNESS	YEILD (PSI)	ELONG (MIN)		INTENDED USE
						TUBE	STRIP	
304 Smls or welded	5695-1/4H		1/4 Hard	120,000 psi min.	75,000 psi min.	15%	12%	Mechanical
304 Smls or Welded	5695-1/2H		1/2 Hard	150,000 psi min.	110,000 psi min.	7%	5%	Mechanical
304 Smls or Welded	6845	5566	1/8 Hard	105-140,000 psi	75-110,000 psi	20%		Hydraulic
304 Smls	8504	5560	Annealed	75-100,000 psi	30,000 psi	40%	35%	Hydraulic
304 Welded	8504	5565	Annealed	75-100,000 psi	30,000 psi	40%	35%	Hydraulic
304 Smls or Welded	8506		Annealed	100,000 psi max.		40%	35%	Mechanical
304W Smls or Welded	8606		Annealed	75-105,000 psi	30,000 psi min.	35%	30%	Hydraulic
304 Smls		5639	Annealed	Rockwell B-90 max.				Mechanical
304L Smls		5647	Annealed	Rockwell B-90 max.				Mechanical
316 Smls		5573	Annealed	100,000 psi max.		40%	35%	Hydraulic
316 Smls		5648	Annealed	Rockwell B-90 max.				Mechanical
321 Smls or Welded		5557	Annealed	75 - 105,000 psi	30,000 psi min.	35%	30%	Hydraulic
321 Welded	6737		Annealed	105,000 psi max.		35%	30%	Mechanical
321 Smls	8606	5570	Annealed	75 - 105,000 psi	30,000 psi min.	35%	30%	Hydraulic
321 Welded	8606	5576	Annealed	75 - 105,000 psi	30,000 psi min.	35%	30%	Hydraulic
321 Smls or Welded	8808		Annealed	105,000 psi max.	30,000 psi min.	35%		Hydraulic
321 Smls		5645	Annealed	Rockwell B-90 max.				Mechanical
347 Smls or Welded		5556	Annealed	75 - 105,000 psi	30,000 psi min.	35%	30%	Hydraulic
347 Welded	6737		Annealed	105,000 psi max.		35%	30%	Mechanical
347 Smls	8606	5571	Annealed	75 - 105,000 psi	30,000 psi min.	35%	30%	Hydraulic
347 Welded	8606	5575	Annealed	75 - 105,000 psi	30,000 psi min.	35%	30%	Hydraulic
347 Smls or Welded	8808		Annealed	105,000 psi max.	30,000 psi min.	35%		Hydraulic
347 Smls		5646	Annealed	Rockwell B-90 max.				Mechanical
410 Smls		5591	Annealed	100,000 psi max.		25%	20%	Hydraulic
410 Smls		5613	Annealed	Brinnell 241 max.				Mechanical
21-6-9 Welded		5561	1/8-1/4 Hard	142-162,000 psi	120,000 psi min.	20%		Hydraulic
21-6-9 Smls		5562	Annealed	90,000 psi min.	50,000 psi min.	45%	40%	Hydraulic

Disclaimer: The technical information is provided for information only and not for design purposes. Mercer Metals makes no warranty of any kind with respect to the subject matter accuracy.



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