

## SEAMLESS STAINLESS STEEL & NICKEL ALLOY AEROSPACE TUBING



### SIZE RANGE:

OD: 0.125 - 3.000" (3.175mm - 76.2mm)

Wall: 0.016" - 0.218" (0.406mm - 5.537mm)

### AMS 5564 (AMS-T-6845 noncurrent)

**AMS 5565** (AMS-T-8506 canceled, supersedes MIL-T-8506)

**AMS 5567** (supersedes MIL-T-8504)

**MIL-T-5695** (AMS 5695 canceled)

304/L

Material Type & UNS#	304, 304L / S30400, S30403
Modulus of Elasticity 1,000,000 psi (MPa)	29 (200)
Tensile Strength 1,000 psi (MPa)	100 (689) max
Yield Strength 0.2% offset 1,000 psi (MPa)	30 (207) min
Elongation %	35% min
Hardness Rockwell B	90 max
Condition	Annealed

### AMS 5557

(supersedes MIL-T-8808, MIL-T-8606 inactive)

### AMS 5570

321

Material Type & UNS#	321 / S32100
Modulus of Elasticity 1,000,000 psi (MPa)	29 (200)
Tensile Strength 1,000 psi (MPa)	75 – 105 (517 – 724)
Yield Strength 0.2% offset 1,000 psi (MPa)	30 (207) min
Elongation %	35% min
Hardness Rockwell B	90 max
Condition	Annealed

### AMS 5557

(supersedes MIL-T-8808, MIL-T-8606 inactive)

347

Material Type & UNS#	347 / S34700
Modulus of Elasticity 1,000,000 psi (MPa)	29 (200)
Tensile Strength 1,000 psi (MPa)	75 – 105 (517 – 724)
Yield Strength 0.2% offset 1,000 psi (MPa)	30 (207) min
Elongation %	35% min
Hardness Rockwell B	90 max
Condition	Annealed

### AMS 5581

625

Material Type & UNS#	625 / N06625
Modulus of Elasticity 1,000,000 psi (MPa)	30 (205)
Tensile Strength 1,000 psi (MPa)	125 (860)
Yield Strength 0.2% offset 1,000 psi (MPa)	65 (450) min
Elongation %	45% min
Hardness Rockwell B	
Condition	Annealed

Canceled and inactive MIL-T and AMS specifications are referenced for replacement purposes and should not be specified for new designs. Properties are a function of tubing diameter and wall thickness; refer to specifications.



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# AEROSPACE TUBING

## WELDED & DRAWN STAINLESS STEEL & NICKEL ALLOY AEROSPACE TUBING

SIZE RANGE: OD: 0.188 - 4.000" (4.775mm - 101.6mm); Wall: 0.016" - 0.218" (0.406mm - 5.537mm)

304/L	AMS 5565	AMS 5564, AMS 5566, AMS 5569
	(AMS-T-8506 canceled, supersedes MIL-T-8506)	(AMS-T-6845 noncurrent, MIL-T-6845D canceled)
	AMS 5567	
	(supersedes MIL-T-8504)	
Material Type & UNS#	304, 304L / S30400, S30403	304, 304L / S30400, S30403
Modulus of Elasticity 1,000,000 psi (MPa)	29 (200)	29 (200)
Tensile Strength 1,000 psi (MPa)	100 (689) max	105 -140 (724 - 965)
Yield Strength 0.2% offset 1,000 psi (MPa)	30 (207) min	75 - 110 (517 - 758) (207)
Elongation %	35% min	20% min
Hardness Rockwell B	90 max	
Condition	Annealed	As Cold Drawn; 1/8" hard

321	AMS 5567	AMS 5576
	(supersedes MIL-T-8508, MIL-T-8606 & AMS-T-8606 inactive)	(MIL-T-6737 canceled)
Material Type & UNS#	321 / S32100	
Modulus of Elasticity 1,000,000 psi (MPa)	29 (200)	
Tensile Strength 1,000 psi (MPa)	75 -105 (517 - 724)	
Yield Strength 0.2% offset 1,000 psi (MPa)	30 (207) min	
Elongation %	35% min	
Hardness Rockwell B	90 max	
Condition	Annealed	

347	AMS 5556	AMS 5575
	(supersedes MIL-T-8808, MIL-T-8606 inactive)	(MIL-T-6737 canceled)
Material Type & UNS#	347 / S34700	
Modulus of Elasticity 1,000,000 psi (MPa)	29 (200)	
Tensile Strength 1,000 psi (MPa)	85 (585)	
Yield Strength 0.2% offset 1,000 psi (MPa)	35 (240)	
Elongation %	40%	
Hardness Rockwell B	90 max	
Condition	Annealed	

625	AMS 5581
	Material Type & UNS#
Modulus of Elasticity 1,000,000 psi (MPa)	30 (205)
Tensile Strength 1,000 psi (MPa)	125 (860)
Yield Strength 0.2% offset 1,000 psi (MPa)	65 (450)
Elongation %	45%
Condition	Annealed

718	PWA 1065, TP-718
	Material Type & UNS#
Modulus of Elasticity 1,000,000 psi (MPa)	29 (200)
Tensile Strength 1,000 psi (MPa)	128 (880) 180 min
Yield Strength 0.2% offset 1,000 psi (MPa)	72 (495) 150 min
Elongation %	45% 12 min
Hardness Rockwell C	36 min
Condition	Annealed Precip HT

21-6-9	AMS 5561, BMS 7-185
	Material Type & UNS#
Modulus of Elasticity 1,000,000 psi (MPa)	28.5 (195)
Tensile Strength 1,000 psi (MPa)	142 -162 (980 - 1115)
Yield Strength 0.2% offset 1,000 psi (MPa)	120 (825) min
Elongation %	20% min
Condition	As Cold Drawn

17-7PH	AMS 5568
	Material Type & UNS#
Modulus of Elasticity 1,000,000 psi (MPa)	29 (200)
Tensile Strength 1,000 psi (MPa)	130 195 (895) (1345)
Yield Strength 0.2% offset 1,000 psi (MPa)	50 (345) 175 (1205)
Elongation %	30 8
Hardness Rockwell B	80 HRC 42
Condition	Annealed Aged HT 1050



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