C95400



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Product Description: Soilds:	Aluminum Bronze 1/2" to 9" OD					
Tubes	11/8" to 9" OD					
Rectangles:	Up to 15"					
Standard Lengths:	144"					
Shape/Form	semi-finished, mill stock or ne		ck, billet/l	bloom, squares,	, hex, plate, profile or	
	structural shape, flats/rectang	ular bar				
Compliance:	C95400 is compliant with key				t 1974 – SDWA,	
TYPICAL USES	(2) Federal Reduction of Lead	in Drinking Water Act 2011 an	u (5) Calli	Offila AF1955		
TIFICAL USES						
Automotive	weld guns					
Fasteners	nuts, large hold down screws					
Marine Industrial	covers for marine hardware, s		م منامد ا	adias landing a		
	bushings, high strength clamps, gears, valves, bearings, pawl, valve bodies, landing gear parts, worm gears, machine parts, pressure blocks for the steel industry, bearing segments for the steel industry, valve seats,					
	valve guides, pickling hooks, s					
Ordnance	government fittings					
Note: Also available in heat-treated condition.						
SIMILAR OR EQUIVALENT SPE						
CDA	ASTM	SAE		MILTIARY		
C95400	B505	J461	QQ-C- 390 G5	MIL-B-16033, CLASS 3	ALUMINUM BRON	٤£
					-	
		J462	QQ-B- 671,			
		2-10L	CLASS 3			
CHEMICAL COMPOSITION						
Alloy	Cu%	Fe%	Ni%	Al%	Mn%	
C95400	83	3.00-5.00	1.5	10.00-11.50	0.5	
Chemical Composition according to ASTM B505/B50	I5M-					
14						
MACHINABILITY						
- U	Marshinghilts, Deting	- · · · · · · · · · · · · · · · · · · ·				
Alloy	Machinability Rating	Density (lb/cu in.)				
Mechanical Properties	60	0.269		Brinell Hardne	ess	Remarks
C95400 Mechanical Properties Tensile Strength, min	60 Yield Strength, at .5% extension under load min	0.269 Elongation in 2 in. or 50 mm min				Remarks
C95400 Mechanical Properties Tensile Strength, min Ksi	60 Yield Strength, at .5% extension under load min Mpa	0.269 Elongation in 2 in. or 50 mm min ksi	Мра	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min	60 Yield Strength, at .5% extension under load min	0.269 Elongation in 2 in. or 50 mm min	Mpa 221	%		
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14	60 Yield Strength, at .5% extension under load min Mpa	0.269 Elongation in 2 in. or 50 mm min ksi		%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85	60 Yield Strength, at .5% extension under load min Mpa	0.269 Elongation in 2 in. or 50 mm min ksi		%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM 8505/8505M-14 PHYSICAL PROPERTIES	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric		%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min Ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1038 C		%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Liquidus	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 1880' F	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric		%	typical BHN	
CSS400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 1880' F 0.269 Ib/in3 at 68' F 7.45	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1038° C 1027° C 1027° C 7.45 gr C 1027° C 7.45	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Conductivity	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 1880' F 0.269 lb/in3 at 68' F	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1038° C 1027° C 1038° C 1027° C 7.45 gm/cm3 at 20° C	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM 8505/8505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Resistivity	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 0.269 lb/in3 at 68' F 7.45 80.20 ohms-cmil/ft at 68' F 130% IAC3 at 68' F 130% IAC3 at 68' F 33.90 Btu · ft/lhr · ft2 · 'F) at	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1037 C 1027 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM 8505/8505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Conductivity Thermal Conductivity Coefficient of Thermal Expansion	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 80.20 ohms-cmil/ft at 68° F 130% IACS at 68° F 130% IACS at 68° F 130% IACS at 68° F 130% IACS at 68° F	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 16.2 · 10-6 per °C (20-300° C)	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Resistivity Electrical Conductivity Thermal Conductivity Thermal Conductivity Coefficient of Thermal Expansion Specific Heat Capacity	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 1800' F 0.269 lb/in3 at 68'' F 7.45 80.20 ohms-cmil/ft at 68'' F 130% IACS at 68'' F 33.90 Btu · ft/lhr · ft2 · 'F) at 90 · 10-6 per 'F (68' - 572' F) 0.10 Btu/lb/'F at 68'' F	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1038° C 1027° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 MegaSiemens/cm at 20° C 0.075 MegaSiemens/cm at 20° C 0.075 MegaFic 20.00° cl 419.0 J/Kg at 293° C	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Conductivity Thermal Conductivity Thermal Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elasticity In Tension Magnetic Permeability*	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 80.20 ohms-cmil/ft at 68° F 130% IACS at 68° F 130% IACS at 68° F 130% IACS at 68° F 130% IACS at 68° F	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 16.2 · 10-6 per °C (20-300° C)	221	%	typical BHN	
CSS400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Specific Gravity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Coductivity Coefficient of Thermal Expansion Specific Hard Capacity Modulas of Elasticity in Tension Magnetic Permeability*	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 0.269 lb/in3 at 68' F 7.45 80.20 ohms-cmil/ft at 68' F 130% IACS at 68' F 130% IACS at 68' F 33.90 Btu · ft/lhr · ft2 · 'F) at 90 · 10-6 per 'F (68'-572' F) 0.10 Btu/lb/' Fat 68' F 15500	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1038°C 1027°C	221	%	typical BHN	
CSS400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Specific Gravity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Coductivity Coefficient of Thermal Expansion Specific Hard Capacity Modulas of Elasticity in Tension Magnetic Permeability*	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 1880' F 0.269 lb/in3 at 68' F 7.45 80.20 ohms-cmil/ft at 68' F 130% IACS at 68' F 33.90 Btu. ft/lbr + ft2 · F] at 90 · 10-6 per 'F (68'-572' F) 0.10 Btu/lb/F at 68' F 15500 1.2	0.269 Elongation in 2 in. or 50 mm min ksi 32 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 MegaSiemens/cm at 58.7 W/m at 20° C 16.2 · 10-6 per °C (20-300° C) Cl 419.0 J/kg at 293° C 1007000 MPa 1.2	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM 8505/8505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Specific Gravity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Resistivity Thermal Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elsticity in Tension	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 1880' F 0.269 lb/in3 at 68' F 7.45 80.20 ohms-cmil/ft at 68' F 130% IACS at 68' F 33.90 Btu. ft/lbr + ft2 · F] at 90 · 10-6 per 'F (68'-572' F) 0.10 Btu/lb/F at 68' F 15500 1.2	0.269 Elongation in 2 in. or 50 mm min ksi 32 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 MegaSiemens/cm at 58.7 W/m at 20° C 16.2 · 10-6 per °C (20-300° C) Cl 419.0 J/kg at 293° C 1007000 MPa 1.2	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Specific Gravity Electrical Conductivity Electrical Resistivity Electrical Resistivity Electrical Coductivity Coefficient of Thermal Expansion Specific Hard Capacity Modulas of Elasticity in Tension Magnetic Permeability** PHYSICAL PROPERTIES PROVIDED BY CDA Fabrication Practices Joining Technique	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 80.20 ohms-cmil/ft at 68° F 130% IAC sat 68° F 130% IAC sat 68° F 33.90 Btu - ft/lhr - ft2 - 'F) at 90 - 10-6 per 'F (68°-572° F) 0.10 Btu/lb/'F at 68° F 15500 1.2 1.2 1.27	0.269 Elongation in 2 in. or 50 mm min ksi 32 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 MegaSiemens/cm at 58.7 W/m at 20° C 16.2 · 10-6 per °C (20-300° C) Cl 419.0 J/kg at 293° C 1007000 MPa 1.2	221	%	typical BHN	
CSS400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM E505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Conductivity Thermal Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elsticity in Tension Magnetic Permeability* Magnetic Permeability*	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 80.20 ohms-cmil/ft at 68° F 130% IACS at 68° F 120% IACS at 68° F 1500 1.2 1.27 Suitability Good	0.269 Elongation in 2 in. or 50 mm min ksi 32 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 MegaSiemens/cm at 58.7 W/m at 20° C 16.2 · 10-6 per °C (20-300° C) Cl 419.0 J/kg at 293° C 1007000 MPa 1.2	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Conductivity Thermal Conductivity Thermal Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elasticity in Tension Magnetic Permeability* Magnetic Permeability*	60 Vield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 1880' F 0.269 lb/in3 at 68' F 7.45 80.20 ohms-cmil/ft at 68' F 130% IACS at 68' F 13500 1.2 1.27 Suitability Good Good	0.269 Elongation in 2 in. or 50 mm min ksi 32 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 MegaSiemens/cm at 58.7 W/m at 20° C 16.2 · 10-6 per °C (20-300° C) Cl 419.0 J/kg at 293° C 1007000 MPa 1.2	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM 8505/8505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Resistivity Electrical Conductivity Thermal Conductivity Thermal Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elasticity in Tension Magnetic Permeability** PHYSICAL PROPERTIES PROVIDED BY CDA Fabrication Practices Joining Technique Soldering Brazing Oxyacetylene Welding Gas Shielded Arc Welding	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 80.20 ohms-cmil/ft at 68° F 130% IACS at 68° F 120% IACS at 68° F 1500 1.2 1.27 Suitability Good	0.269 Elongation in 2 in. or 50 mm min ksi 32 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 MegaSiemens/cm at 58.7 W/m at 20° C 16.2 · 10-6 per °C (20-300° C) Cl 419.0 J/kg at 293° C 1007000 MPa 1.2	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Conductivity Electrical Resistivity Electrical Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elasticity in Tension Magnetic Permeability* Magnetic Permeability* PHYSICAL PROPERTIES PROVIDED BY CDA Fabrication Practices Joining Technique Soldering Brazing Oxyacetylene Welding Gas Shielded Arc Welding	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 1880° F 0.269 lb/in3 at 68° F 7.45 33.90 Btu · ft/lhr · ft2 · °F) at 90 · 10-6 per °F (68° -572° F) 0.10 Btu/lb/F at 68° F 15500 1.2 1.2 1.2 1.27 Suitability Good Good Not Recommended	0.269 Elongation in 2 in. or 50 mm min ksi 32 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 MegaSiemens/cm at 58.7 W/m at 20° C 16.2 · 10-6 per °C (20-300° C) Cl 419.0 J/kg at 293° C 1007000 MPa 1.2	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM 8505/8505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Resistivity Electrical Conductivity Thermal Conductivity Thermal Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elasticity in Tension Magnetic Permeability** PHYSICAL PROPERTIES PROVIDED BY CDA Fabrication Practices Joining Technique Soldering Brazing Oxyacetylene Welding Gas Shielded Arc Welding	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 80.20 ohms-cmil/ft at 68° F 130% IACS at 68° F 120% IACS at 68° F 1	0.269 Elongation in 2 in. or 50 mm min ksi 32 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 MegaSiemens/cm at 58.7 W/m at 20° C 16.2 · 10-6 per °C (20-300° C) Cl 419.0 J/kg at 293° C 1007000 MPa 1.2	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Conductivity Electrical Resistivity Electrical Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elasticity in Tension Magnetic Permeability* Magnetic Permeability* PHYSICAL PROPERTIES PROVIDED BY CDA Fabrication Practices Joining Technique Soldering Brazing Oxyacetylene Welding Gas Shielded Arc Welding	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 80.20 ohms-cmil/ft at 68° F 130% IACS at 68° F 120% IACS at 68° F 1	0.269 Elongation in 2 in. or 50 mm min ksi 32 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 MegaSiemens/cm at 58.7 W/m at 20° C 16.2 · 10-6 per °C (20-300° C) Cl 419.0 J/kg at 293° C 1007000 MPa 1.2	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM 8505/8505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Resistivity Electrical Conductivity Thermal Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elsticity in Tension Magnetic Permeability* Magnetic Permeability* Magnetic Permeability* Magnetic Permeability* Magnetic Permeability* Magnetic Permeability* Magnetic Permeability* Magnetic Permeability* Magnetic Permeability* Magnetic Permeability Soldering Soldering Soldering Solaring Coxated Metal Arc Welding Gas Shielded Arc Welding Fabrication Properties provided by CDA Thermal Properties	60 Vield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 80.20 ohms-cmil/ft at 68° F 130% IACS at 68° F 120% IACS at 68° F 1500 1.2 1.2 1.27 Suitability Good Good Not Recommended Good Good	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1037 C 1037 C 1007 C 1007 C 1007 C 1007 C 1007 C 1007 C 1007 C 1007 C 1007	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM 8505/8505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Resistivity Electrical Conductivity Thermal Conductivity Thermal Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elsticity in Tension Magnetic Permeability** PHYSICAL PROPERTIES PROVIDED BY CDA Eabrication Practices Joining Technique Soldering Brazing Oxyacetylene Welding Gas Shielded Arc Welding Fabrication Properties provided by CDA	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 80.20 ohms-cmil/ft at 68° F 130% IACS at 68° F 120% IACS at 68° F 1	0.269 Elongation in 2 in. or 50 mm min ksi 32 32 Metric 1037 C 7.45 gm/cm3 at 20° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 MegaSiemens/cm at 58.7 W/m at 20° C 16.2 · 10-6 per °C (20-300° C) Cl 419.0 J/kg at 293° C 1007000 MPa 1.2	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM 8505/8505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Resistivity Electrical Conductivity Thermal Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elsticity in Tension Magnetic Permeability* Magnetic Pe	60 Vield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 80.20 ohms-cmil/ft at 68° F 130% IACS at 68° F 120% IACS at 68° F 1500 1.2 1.27 Suitability Good	D.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1037 C 1037 C 1000 MPa 12 12 12 12 12 12 12 12 12 12 12 12 12	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Hora Capacity Modulas of Elasticity in Tension Magnetic Permeability* Magnetic Permeability* PHYSICAL PROPERTIES Joining Technique Soldering Brazing Oxyacetylene Welding Gas Shielded Arc Welding Fabrication Properties provided by CDA Thermal Properties TREATMENT Stress Temperature Solution Minimum Solution Minimum	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 33.90 Btu · ft/lhr · ft2 · °F1 at 90 · 10-6 per °F (68° -572° F) 0.10 Btu/lb/°F at 68° F 13500 1.2 1.2 1.2 1.27 Suitability Good Good Not Recommended Good Good Sood Sood	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1038° C 1027° C 1027° C 1027° C 1027° C 7.45 gm/cm3 at 20° C 7.45 13.33 microhm-cm at 20° C 0.075 Megasiemens/cm at 8.87 W/m at 20° C 10.075 Megasiemens/cm at 8.87 W/m at 20° C 10.000 M/Pa 1.2 1.2 1.27	221	%	typical BHN	
CSS400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Conductivity Electrical Resistivity Electrical Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elasticity in Tension Magnetic Permeability** Magnetic Permeability* Magnetic Permeability* Magnetic Permeability Stress Temperature Solution Medium Solution Minimum Solution Minimum Solution Minimum Solution Medium	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 1880' F 0.269 lb/in3 at 68' F 7.45 33.90 Btu - ft/lhr - ft2 · 'F1 at 90 · 10-6 per 'F (68'-572' F) 0.10 Btu/lb/F at 68' F 15500 1.2 1.27 Suitability Good Good Not Recommended Good Sood Not Recommended Good Sood Not Recommended Good Sood	D.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1037 C 1037 C 1000 MPa 12 12 12 12 12 12 12 12 12 12 12 12 12	221	%	typical BHN	
CSS400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Specific Arowity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Resistivity Electrical Resistivity Specific Heat Capacity Modulas of Elesticity in Tension Magnetic Permeability** PHYSICAL PROPERTIES PROVIDED BY CDA Fabrication Practices Joining Technique Soldering Brazing Coxaet Metal Arc Welding Casa Shielded Arc Welding Casated Metal Arc Welding Casated Metal Arc Welding Stress Temperature Solution Properties provided by CDA Thermal Properties Solution Minimum Solution Minimum Solution Maximum Solution Medium Precipitation Value	60 Vield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 80.20 ohms-cmil/ft at 68° F 130% IACS at 68° F 1	D.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1037 C 1037 C 1000 MPa 12 12 12 12 12 12 12 12 12 12 12 12 12	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM 8505/8505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Conductivity Coefficient of Thermal Expansion Specific Heat Capacity Modulas of Elstickty in Tension Magnetic Permeability** PHYSICAL PROPERTIES Difficuent Of Thermal Expansion Specific Pearmeability* PHYSICAL PROPERTIES Difficuent Properties PROVIDED BY CDA Fabrication Practices Doloning Technique Soldering Brazing Oxyacetylene Welding Gas Shielded Arc Welding Fabrication Properties provided by CDA Thermal Properties Solution Minimum Solution Maximum Solution Makimum Solution Makimum Solution Medium Precipitation Time Precipitation Medium	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900° F 0.269 lb/in3 at 68° F 7.45 33.90 Btu · ft/lhr · ft2 · °F) at 90 · 10-6 per °F (68° -572° F) 0.10 Btu/lb/°F at 68° F 130% LACS at 68° F	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1088°C 1027°C 7.45 gm/cm3 at 20°C 7.45 gm/cm3 at 20°C 10.75 Megasimens/cm at 58.7 W/m at 20°C 11.2 1.2 1.2 1.2 1.2 1.2 1.2 1.	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Solidus Density Specific Gravity Electrical Conductivity Coefficient of Thermal Expansion Specific Hard Capacity Modulas of Elasticity in Tension Magnetic Permeability* Magnetic Permeability* PHYSICAL PROPERTIES Dolining Technique Soldering Brazing Oxyacetylene Welding Gas Shielded Arc Welding Coated Metal Arc Welding Coated Metal Arc Welding Fabrication Properties Provided by CDA Thermal Properties TREATMENT Stress Temperature Solution Minimum Solution Maximum Solution Time 0.0 Solution Medium Precipitation Value Precipitation Value Precipitation Time	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 1880' F 0.269 lb/in3 at 68' F 7.45 33.90 Btu - ft/lhr - ft2 - 'F) at 90 · 10-6 per 'F(68'-572' F) 0.10 Btu 'Br/ F (68'-572' F) 0.10 Btu 'Br/ F (68'-572' F) 1.27 Suitability Good Good Not Recommended Good Sood Not Recommended Good 1675 1 Water	D.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1037 C 1037 C 1000 MPa 12 12 12 12 12 12 12 12 12 12 12 12 12	221	%	typical BHN	
C95400 Mechanical Properties Tensile Strength, min ksi 85 Mechanical Properties according to ASTM B505/B505M-14 PHYSICAL PROPERTIES Melting Point – Liquidus Melting Point – Solidus Density Specific Gravity Electrical Conductivity Coefficient of Thermal Expansion Specific Hard Capacity Modulas of Elasticity in Tension Magnetic Permeability** PHYSICAL PROPERTIES Soldering Brazing Oxyacetylene Welding Gas Shielded Arc Welding Coated Metal Arc Welding Fabrication Properties Proceplation Minimum Solution Minimum Solution Medium Precipitation Time 0. Solution Medium Precipitation Medium Annealing Minimum	60 Yield Strength, at .5% extension under load min Mpa 586 US Customary 1900' F 1880' F 0.269 lb/in3 at 68' F 7.45 33.90 Btu · ft/lhr · ft2 · 'F) at 90 · 10-6 per 'f (88'-572' F) 0.10 Btu / 'B/ 'F at 68' F 15500 1.2 Suitability Good Good Not Recommended Good Sood Not Recommended Good 1675 1 Water Water 150	0.269 Elongation in 2 in. or 50 mm min ksi 32 Metric 1038° C 1027° C 7.45 m/cm3 at 20° C 7.45 m/cm3 at 20° C 0.075 MegaSiemens/cm at 20° C 0.075 MegaSiemens/cm at 20° C 0.075 MegaSiemens/cm at 20° C 0.075 MegaSiemens/cm at 20° C 1.07000 MPa 1.2 1.27 Temp./Time - SI 316 872 914	221	%	typical BHN	

Thermal Properties provided by CDA