

C26000 (Cartridge Brass, 70%)

US EPA Registered Antimicrobial

Chemical Composition

(%max., unless shown as range or min.)

	Cu	Fe	Pb	Zn	Rem.
Min./Max.	68.5-71.5	.05	.07		
Nominal	70.0	-	-	30.0	

Note: Cu + Sum of Named Elements, 99.7% min.

Mechanical Properties (measured at room temperature, 68 F (20 C))

Temper	Section Size	Cold Work	Typ/Min	Temp	Tensile Strength	Yield Strength			Rockwell Hardness	Vickers Hard.	Brinell Hard.	Shear Strength	Fatigue Strength*	Izod Impact Strength
						(0.5% ext. under load)	(0.2% offset)	(0.05% offset)						
	in. mm.	%	F C	ksi MPa	ksi MPa	ksi MPa	ksi MPa	% B CF 30T500			ksi MPa	ksi MPa	ft-lb J	
Wire														
H06	0.082	0	TYP68		124 855	-	-	-	4 - - - -	-	-	-	-	0.0
Tube														
H80	0.00.0	35	TYP68		78 538	64 441	-	-	8 82- - 73 -	-	-	-	-	0.0
Flat Products														
OS015	0.041	0	TYP68		53 365	22 152	-	-	54- - 7843 -	-	-	35 241	14 97	0.0
H02	0.041	0	TYP68		62 427	52 359	-	-	2570- - 65 -	-	-	40 276	18 124	0.0
Wire														
H00	0.082	0	TYP68		58 400	-	-	-	35- - - - -	-	-	38 262	-	0.0
H01	0.082	0	TYP68		70 483	-	-	-	20- - - - -	-	-	-	-	0.0
Flat Products														
H06	0.041	0	TYP68		86 593	65 448	-	-	5 88- - 76 -	-	-	46 317	-	0.0
OS100	0.041	0	TYP68		44 303	11 76	-	-	66- - 5411 -	-	-	-	13 90	0.0
OS035	0.041	0	TYP68		49 338	17 117	-	-	57- - 6831 -	-	-	34 234	14 97	0.0
H04	0.041	0	TYP68		76 524	63 434	-	-	8 82- - 73 -	-	-	44 303	21 145	0.0
Wire														
OS015	0.082	0	TYP68		54 372	-	-	-	56- - - - -	-	-	-	-	0.0
OS050	0.082	0	TYP68		48 331	-	-	-	64- - - - -	-	-	-	-	0.0
Flat Products														
H08	0.041	0	TYP68		94 648	65 448	-	-	3 91- - 77 -	-	-	48 331	23 159	0.0
Rod														
OS050	1 25.4	0	TYP68		48 331	16 110	-	-	65- - 65- -	-	-	34 234	-	0.0
H00	1 25.4	6	TYP68		55 379	40 276	-	-	4860- - - -	-	-	36 248	-	0.0
Wire														
H08	0.082	0	TYP68		130 896	-	-	-	3 - - - - -	-	-	60 414	22 152	0.0
Tube														
OS025	0.00.0	0	TYP68		52 359	20 138	-	-	55- - 7540 -	-	-	-	-	0.0
Flat Products														
OS070	0.041	0	TYP68		46 317	14 97	-	-	65- - 5815 -	-	-	32 221	13 90	0.0
Rod														
H02	1 25.4	20	TYP68		70 483	52 359	-	-	3080- - - -	-	-	42 290	22 152	0.0
Wire														
OS035	0.082	0	TYP68		50 345	-	-	-	60- - - - -	-	-	34 234	-	0.0

Flat Products												
OS050	0.04	0	TYP68	47	15	-	-	62-	- 6426	-	-	0.0
1			20	324	103	-	-	62-	- 6426	-	-	0.0
Wire												
OS025	0.08	0	TYP68	52	-	-	-	58-	- - -	-	-	0.0
2			20	359	-	-	-	58-	- - -	-	-	0.0
Tube												
OS050	0.0	0	TYP68	47	15	-	-	65-	- 6426	-	-	0.0
0.0			20	324	103	-	-	65-	- 6426	-	-	0.0
Flat Products												
H10	0.04	0	TYP68	99	65	-	-	3 93-	- 78	-	-	0.0
1			20	683	448	-	-	3 93-	- 78	-	-	0.0
H01	0.04	0	TYP68	54	40	-	-	4355-	- 54	-	36	0.0
1			20	372	276	-	-	4355-	- 54	-	248	0.0
OS025	0.04	0	TYP68	51	19	-	-	55-	- 7236	-	-	0.0
1			20	352	131	-	-	55-	- 7236	-	-	0.0

*Fatigue Strength: 100×10^6 cycles,
unless indicated as $[N] \times 10^6$.

Physical Properties

<="" b="">	US Customary
Melting Point - Liquidus	1750 F
Melting Point - Solidus	1680 F
Density	0.308 lb/in ³ at 68 F
Specific Gravity	8.530
Electrical Resistivity	37 ohms-cmil/ft @ 68 F
Electrical Conductivity	28 %IACS @ 68 F
Thermal Conductivity	70 Btu · ft/(hr · ft ² · °F) at 68F
Coefficient of Thermal Expansion	$11.10 \cdot 10^{-6}$ per °F (68-572 F)
Specific Heat Capacity	0.090 Btu/lb/°F at 68 F
Modulus of Elasticity in Tension	16000 ksi
Modulus of Rigidity	6000 ksi