



Bar Stock

Cold Heading Wire

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1-800-325-5861

Central Wire Industries is one of the world's fastest growing wire manufacturers, producing a broad array of stainless steel, nickel alloy, copper, brass, bronze, and zinc wires for an equally broad array of applications. Since the late 1960's, CWI has quickly become one of the globe's largest and most respected sources for spring wire.

The CWI is 9001:2015 certified by BSI for the manufacturing of stainless steel wire and nickel-based alloy wire to national and international standards and customer specifications and requirements.



Our product range includes stainless steel, nickel, copper, brass, bronze, and zinc wires, in diameters ranging from 0.003 inches to 1.000 inches.

Through prompt delivery, high quality materials and expert service, we can ensure a finished product that meets your specifications. Regardless of your industry or application, our bar stock and cold heading wire is the right choice for your fasteners.



Bar Stock

Central Wire manufactures bars up to 0.750 inches (19.05 mm) for parameters such as tensile strength, Rockwell hardness, diameter tolerance, and length. Material is usually supplied to 12 foot (3.65 m) custom lengths. Bars can be supplied centerless ground to meet high custom tolerances. The through-feed centerless grinding process ensures high productivity. The workpiece is fed through the grinding wheels completely, entering on one side and exiting on the opposite side.

Alloys

15-7; 17-4/17-4PH; 302 HQ; 303; 304/304L; 305; 307; 316HQ; 321; 347; 410; 430L; 431; 440A; 440C; A286/660; 13-8 Mo; 302 HQ; 304/403 L; 316/316L/316LVM; Inconel® 600 and 718; Invar 36; Monel® 400 and K500; X750; copper base alloys available

Cold Heading Wire

CWI's cold heading wire is used in the manufacturing of security fasteners, blind rivets, bolts, screws, and aerospace fastening systems. CWI cold heading wire provides excellent formability and consistency during part forming. Central Wire draws material for cold heading applications from 0.040 inches to 1.000 inches (1.02 mm to 25.4 mm).

Alloys

Invar 36; 13-8 Mo; A 286; Monel® 400 and K500; Inconel® 600 and 718; 316/316L; 302 HQ; X750; 304/304L; 305; 316HQ; 321; 347; 430L; 410; 431; A286/660; 17-4; 15-7; copper base alloys available.

Packaging

CWI offers various types of bar stock and cold heading wire shipping packages to meet individual customer requirements. Sturdy double wrap packaging ensures that your product arrives in excellent condition, ready for inline drawing or cold forming. Heat-treated wooden boxes are available upon request.

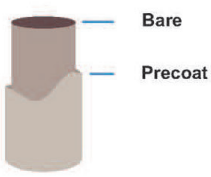
Shipping

CWI has multiple production and distribution facilities throughout North America. CWI also offers customized stocking programs to meet specific production schedules.

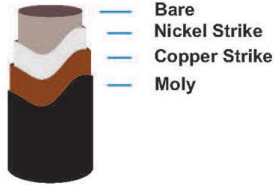
Nominal Chemical Composition (%)*

		Carbon	Chromium	Nickel	Iron	Copper	Other	UNS
Austenitics	302HQ	.01	17	19	Bal.	3.5		S30430
	304	.04	18	9	Bal.			S30400
	304L	.02	18	10	Bal.			S30403
	305	.02	18	12	Bal.			S30500
	316	.04	17	11	Bal.		2 Mo	S31600
	316L	.02	17	12	Bal.		2 Mo	S31603
	316HQ	.01	17	10	Bal.	3.0	2 Mo	
	321	.04	18	10	Bal.		Ti-(5xC) min	S32100
	347	.04	18	11	Bal.		.6 NB	S34700
	Ferritics	409Cb	.02	11		Bal.		3-(Cb+Ta)
430L		.02	16		Bal.			S43000
Martensitics	410	.12	12		Bal.			S41000
	420	.30	13		Bal.			S42000
	431	.18	16	2	Bal.			S15700
	440C	1.0	17		Bal.	.5Mo		S43100
Super Stainless	A-286/660	.04	14	25	Bal.		1.5Mo-2 Ti	S66286
	13-8	.03	13	8	Bal.		2 Mo-1 A1	S66286
	17-4	.04	17	4	Bal.	4		S17400
	15-7	.07	15	7	Bal.			S15700
Nickel Alloys	400	.03		66	1	32		N04400
	K-500	.15		65	1	30	3 Al-1/2 Ti	N05500
	600	.01	16	72	9			N06600
	718	.03	18	52	18		3 Mo-1 Ti-5(Cb+Ta)	N07718
	X750	.07	15	71	8		1 NB 2.5 Ti - .7A1	N07750

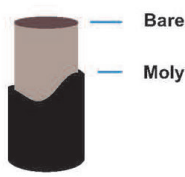
*Not for specification purposes. The grades shown above are manufactured to the latest AMS, ASTM, and U.S. Government specifications. Values listed reflect approximate nominal alloy content. The processing of the wire allows complete compliance with the RoHS directive.



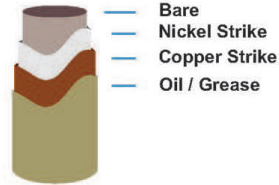
Precoat Only:
Annealed
Ready for heading or skinpass
Simple parts



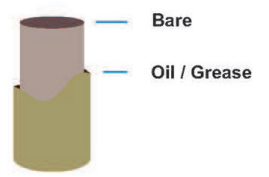
Copper Moly:
Skinpassed
Ready for heading directly
Highest performance coating available for the most difficult engineered fasteners.



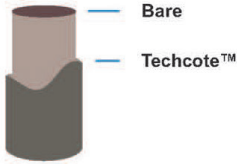
Moly Supercoat:
Annealed
Ready for heading or skinpass
Molybdenum acts as lubricant



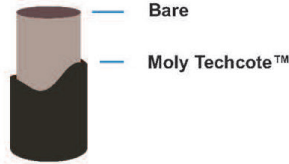
Copper Grease:
Annealed
Ready for heading or skinpass
Copper acts as a lubricant.



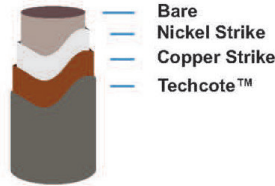
Grease:
Skinpassed
Ready for heading directly
Light duty forming



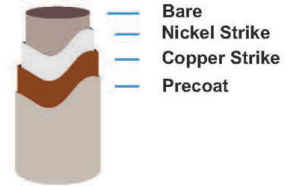
Techcote™ - Soap:
Skinpassed
Ready for heading directly
Light-duty forming for relatively simple parts.



Moly Techcote™:
Skinpassed
Ready for heading directly
Available light or heavy moly
Soap coating enriched with molybdenum disulfide for extra protection during forming.



Copper Techcote™:
Skinpassed
Ready for heading directly
More difficult parts requiring high performance lubrication but with light residual for anti-packing, low dusting.



Copper Precoat:
Annealed
Ready for heading or skinpass
Copper acts as lubricant for moderately severe forming.



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