

CONTINUOUS CAST ALLOYS

ABOUT US

Continuous Cast Alloys is a custom manufacturer of premium Nickel and Cobalt based Alloy Products. Our customers choose us for exceptional value, unparalleled product quality and worldwide distribution. We're confident we can meet your toughest alloy challenge!

CPHONE

ADDDECC

(815) 562-8200





www.ccalloys.com

Choose a wide variety of Weld Rods from CCA

Continuous Cast Alloys, (CCA) is the leading manufacturer of cobalt- and nickel- base hardfacing welding rods and electrodes. Our cast rods are produced using state-of-the-art computer controlled continuous casting system. Available in a wide range of lengths and diameters, CCA rods are produced to the AWS standard and customized compositions to meet your specific wear requirements.

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As well as their more obvious applications in marine or vehicle engines, the special properties of these compounds make them valuable across a wide range of industrial applications. The oil & petroleum, nuclear, plastics, steel, and metal-processing industries rely on them, as do glass bottle and ceramics manufacture. Quarrying, mining, earth-moving, construction, timber and the wood-pulp industry all find hardfacing alloys essential to their day-to-day equipment reliability and long-term productivity.

- More efficient, cleaner continuous casting technology
- Innovative processes and state-of-the-art technologies that keep your cost competitive
- Every order shipped with a Certificate of Analysis
- Industry experts on staff our partnerships ensure superior quality products but provides valuable consultation and field support

WELD ROD PRODUCTS











Choose high-quality, high-value alloys powders from CCA.

Continuous Cast Alloys (CCA) range of atomized cobalt- and nickel-base powders includes specific alloy compositions and sieve cuts for use with PTA, laser cladding, HVOF, and flame spraying techniques.

HIGH-VALUE ALLOYS POWDERS FROM CCA

- 1- High purity and a very low level of oxygen ere to the inert gas atomizing process.
- 2- Good fluidity because of the spherical shape of each particle with the minimum of satellites.
- 3- A wide choice of alloy powders.
- 4- A full product range for Plasma Transferred Arc Welding. Thermal Spraying and the HIP process.

PLASMA TRANSFERRED ARC WELDING

Plasma Transferred Arc Welding (PTA) has come to play an important role in hardfacing.

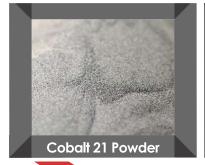
PTA POWDER

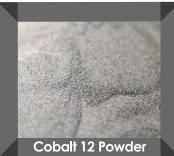
- 1- High quality and purity PTA welded beads obtained.
- 2- Good fluidity of powder
- 3- A wide range of Hardfacing Alloy Powders from which to choose.

TYPICAL ALLOY POWDERS

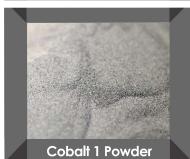
- 1- Particle Size 180/45pm (00/325 Mesh),
- 150/45 m (100/325 Mesh) Other Particle Size Available
- 2- Apparent Density > 4.0g/cm3
- 3- Flow Rate: < If3sec/50g
- 4- Unit Weight: 5kgs/bottle or 10 lbs/bottle

POWDERS PRODUCTS











WIRES

High-Quality Metal-cored wires from CCA

For assistance in selecting the right hardfacing and high alloy products for your wear resistance needs, contact Continuous Cast Alloys



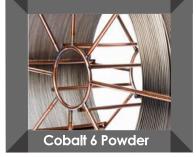
Continuous Cast Alloys (CCA) range high-quality metal-cored wires for GMA welding deposition and suitable for automatic and semi-automatic applications. The welded deposits have higher silicon and manganese contents than cast rods deposits, giving better deoxidization and welding characteristics. We offer a wide range of Cobalt & Nickel Alloys. Our diameters range from 1.2mm (.045") – 1.6mm (.062").

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WIRE PRODUCTS













We manufacture

premium Nickel and Cobalt based dental

alloys, designed to keep you competitive. Because your customers are demanding, we provide consistent quality – thanks to our comprehensive on-site laboratory, our extensive technical expertise, and our outstanding customer support. We deliver the best value for you. Choose Continuous Cast Alloys today.

- More efficient, cleaner continuous casting technology
- Custom capabilities, proprietary chemistries
- Every order shipped with a Certificate of Analysis
- Innovative processes and state-of-the-art technologies that keep you cost competitive

SPECIFICATION SECTION

CAST ROD

Single lengths up to 20'
Cut to custom lengths
Available shapes:
Round, Hexagonal
Available finishes:
As-Cast, Centerless Ground

INGOT & SHOT

Ingot:

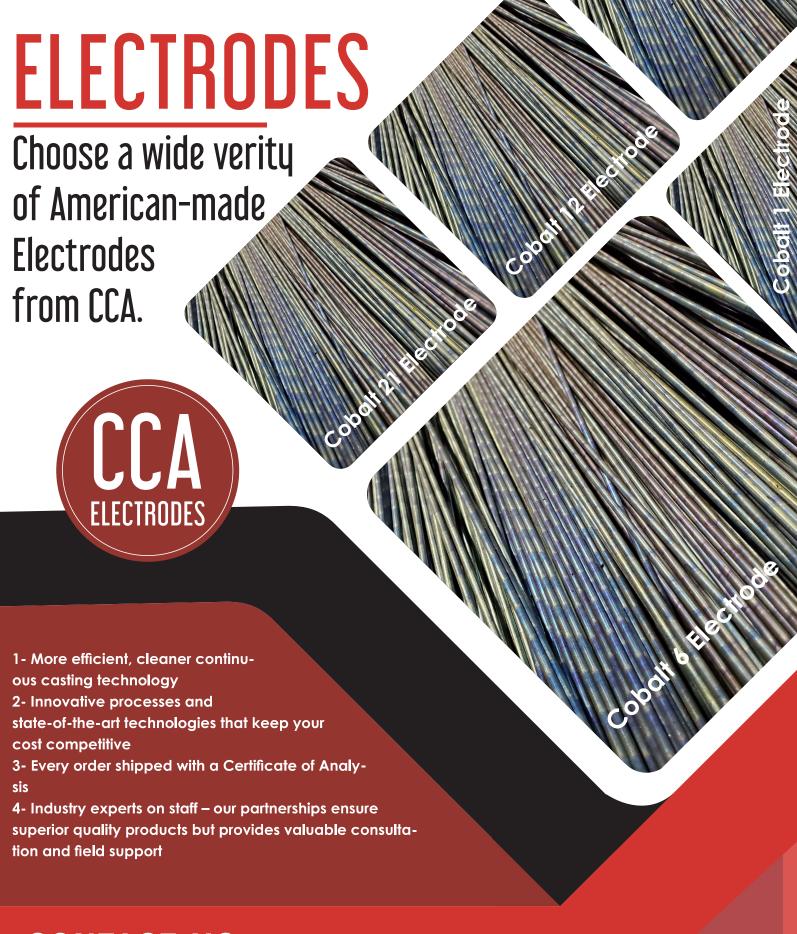
Continuous Cast, Sand Cast Ingot and Shot:

Available in 3/8", 1/2" and 3/4"

CCA - TYPICAL CHEMICAL COMPOSITION

		NOMINAL CHEMICAL COMPOSITION (WT%)							AVAILELABLE FORM			WEAR			7	NO	N.			
Alloy		Co	Cr	w	c	Fe	si	Ni	Others	TYPICAL HARDNESS RANGE	BARE CAST ROD	ELECTRODE	POWDER	METAL TO METAL!	IMPACT	EROSION	CORROSION	COLD ABRASION	HOT ABRASION	TYPICAL APPLICATION
CO-BASE	Co1	BAL	31	12.5	2.5	< 3	< 2	< 3	383	50/54	1	1	1	3	2	3	3	3	3	SEAL RINGS VALVES SAWS CUTTERS
	Co4	BAL	31	13.5	0.6	< 3	× 2	< 3	100	44 (P)	1			3	3	3	3	1	2	DIES FOR DRY CELL BATTERIES
	Co6	BAL	29	4.5	1.2	< 3	< 2	< 3		39/44	1	1	1	3	3	3	3	1	1	AUTO VALVES MIXERS EXTRUDERS
	Co6H	BAL	31	5.5	1.3	<2	< 2	< 3	200	42/46	1		1	3	3	3	3	1	1	ENGINE VALVES, EXTRUSION SCREWS
	No. 12	BAL	30	8.2	1.5	< 3	< 2	< 3	(4)	46/49	1	1	1	3	1	3	3	3	3	E VALVES SEATS SAW TEETH I BARS
	No. 21	BAL	27		0.25	*2	<1.5	< 3.75	Mo5.4	29/34	1	1	1	3	3	3	3	1	1	OIL VALVES SEALS LARGE SEA
	Co32	BAL	26	12.3	1.8	<2	× 2	22	100	40/43	1		1	3	3	3	3	3	- 1	AUTO VALVES
	No. 190	BAL	26	13.5	3.2	<2.0	< 2	<1	-	54/57	1		1	3	2	3	3	3	1	TRI-CONE ROCK BITS FOR OIL
	Co20	BAL	32	16.5	2.5	< 3	+2		-	55/58	1		1	3	2	3	3	3	1	CRUSHERS
	Co694	BAL	28	19	0.9	∢3		5	V:1	50 (T)	1		1	1	2	3	3	3	3	TURBINE BLADE INTERLOCKII SURFACES
	Co400	BAL	8.5	18	<0.04	<2	2.5	<2	Mo 28	52/55	1		1	3	2	3	3	3	3	VALVES
	Co800	BAL	17.5	la.	<0.004	< 3	3.2		Mo: 28.5	56/58	1		1	3	2	3	3	3	3	EXCELLENT WEAR RESISTANC UNDER HEAVE ABRASION AN CORROSION
IN-BASE	No. 40	12	7.5	12	0.25	2.5	3.5	Bal	B: 1.6	39	2		1	1	3	1	3	1	1	MOULDS, VALVES AND PLUNGERS
	No. 50		11	-	0.45	2.9	3.9	Bal	B:2.3	48	2		1	1	4	3	3	1	1	SHAFTS, SLEEVES
	No. 60		14.8	-	0.75	3.5	4.3	Ball	B:3.0	59	2		1	3	2	3	3	3	3	SHAFTS SLEEVES VALVES
		- 4		1.4						39	1									
HE.	ADALLOY	0	32	-	4	bal	1.7		Mn 3.7	54/60	1		1	1	3	1	1	3	1	AGRICULUTURE





CONTACT US

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