



Providing Superior Value to the Military

Commercial Metals Company applies nanotechnology to offer ChromX® brand high strength concrete reinforcing steel products with varying levels of corrosion resistance. Designers can utilize the steel's high strength, ductile properties to efficiently build stronger, blast resistant and durable structures. In addition, the target service life can be obtained by selecting the proper ChromX® steel grade.

Building A More Durable World

High Strength and Superior Blast Protection

ChromX® rebar's combination of high strength and ductility is proven to provide superior blast protection for concrete structures. The high strength can withstand stronger forces, while the ductility dissipates the force across the structural member. In addition, the high strength can be used to efficiently design structures up to 100 ksi (690 MPa) reducing construction costs and time.

Corrosion Protection

Where corrosion environments limit the life of concrete structures, selecting the higher steel grade ChromX® rebar can extend the service life over 100 years, reducing life-cycle costs.

Applications

Since 2002, this revolutionary steel product has been used in public infrastructure and public/private development projects throughout the United States, Canada, Mexico and the Middle East, such as:

- Buildings (piles, foundations, slabs, beams, columns)
- Bridges (decks, girders, columns, abutments)
- Marine facilities and retaining walls (seawalls, docks, piers, barriers)
- Hydroelectric dams, water containment and channels
- Airports (ramps, runways)

Installed Rebar Cost Estimates Comparison

Reinforcement Type	Total Installed Cost (\$/lb)*
Black Steel (Grade 60)	\$0.61
Black Steel (Grade 80)	\$0.63
ChromX 2100 (Grade 100)	\$0.77
ChromX 4100 (Grade 100)	\$0.83
Epoxy-Coated (Grade 60)	\$0.84
Galvanized (Grade 60)	\$1.00
ChromX 9100 (Grade 100)	\$1.21
UNS S3204 (Grade 60)	\$1.91

* Estimated average installed costs in the United States as of the 2015 date of this publication. Excludes applicable strength efficiencies.

NAICS Codes

- 237310 -- Heavy and Civil Engineering Construction/Highway, Street, and Bridge Construction
- 238110 -- Specialty Trade Contractors/ Poured Concrete Foundation and Structure Contractors
- 331110 -- Iron and Steel Mills Ferroalloy Manufacturing
Cage Code: 79EL1
DUNS: 806452749

Certifications

United States/Canada Joint Certification Program (JCP)

FOR MORE INFORMATION:

website:
cmc.com/chromx

email:
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or contact:
your local CMC sales representative

Providing Superior Value to the Military

Global Reach and Quick Response

Production in North America, South America and Middle East North Africa (MENA) region:

- UAE facility supporting CENTCOM, AFRICOM and PACOM regions
- Chile facility supporting SOUTHCOM region
- Oregon facility supporting PACOM region and CONUS

Value Add for Military Applications

- Blast protection
- Efficient designs
- Reduced construction costs and time
- Longer service-life, lower life-cycle costs



US Navy - Naval Facilities Engineering Command Modular Hybrid Pier (MHP)



La Yesca Hydroelectric Dam, Hostotipaquillo - Jalisco, Mexico



North Beach Blvd. Seawall - Bay St. Louis, MS



State Hwy 100 over Illinois River Lake Tenkiller Spillway - Vian, OK



Floating Marina Breakwater - Port Orchard, WA



it's what's **inside** that counts

We're Commercial Metals Company – CMC, for short. You'll find our steel in sports stadiums and public buildings as well as highways, bridges, railways and other structures nearly everywhere on the planet.

To serve this global market, CMC maintains facilities across the United States, Europe and Asia. These sites include everything from local recycling centers, steel mini-mills and micro-mills to large-scale fabrication centers, heat-treating facilities and other metals-related operations.

RECYCLING | MILLS | FABRICATION cmc.com/chromx