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MMFX Steel Corporation Introduces ChrōmX™ 4100 High-Strength Steel

IRVINE, Calif. — Dec. 10, 2013 — MMFX® Steel Corporation of America (www.mmfx.com) is proud to introduce their latest line of high-strength reinforcing steel, featuring a 100 ksi yield strength: ChrōmX™ 4100. This product is ideal for large construction projects in need of high-yield strength at a reasonable material cost.

ChrōmX 4100 has the same mechanical properties of high-strength ASTM A1035 reinforcing steel, and is based on the unique technology used to manufacture the uncoated high-strength and corrosion-resistant MMFX₂ reinforcing steel. Through the modified chemistry of ChrōmX 4100, MMFX can offer reinforcing steel optimized to fulfill the needs of high-strength steel applications when high corrosion resistance is not required.

“ChrōmX 4100 is a cost-effective high-strength steel solution for engineers and project managers,” said Tom Russo, MMFX Steel Corporation of America CEO. *“By introducing a reduced cost, high-strength 100 ksi steel, a project can see up-front construction cost savings by using less steel as well as other cost reductions associated with rebar fabrication and placing.”*

By specifying high-strength steels, designers can solve costly rebar congestion problems and developers can complete structures more quickly, resulting in substantial savings. Grade 100 ChrōmX 4100 high-strength rebar allows structures to be designed and built with up to 40 percent less steel. Additional cost reductions of up to 60 percent can be achieved through lower steel fabrication and placement labor costs.

The unique steel technology used in the manufacture of ChrōmX 4100 results in a low-carbon martensitic steel microstructure with high ductility. Unlike common carbon steel rebar, which loses ductility as strength is increased, ChrōmX 4100 maintains excellent ductility and can be fabricated like conventional reinforcing steel.

Acceptance and application of Grade 100 steel rebar, conforming to ASTM A1035, has been on the rise in recent years.

- In 2010, the American Concrete Institute (ACI) Innovative Task Group report, [ITG-6R-10](#), outlined the use of ASTM A1035 Grade 100 steel in reinforced concrete structures. The report details considerations of using Grade 100 steel within the framework of ACI 318-08.
- In January 2013 the [ICC-ES evaluation report ESR-2107](#) was issued to support the use of ASTM A1035 Grade 100 steel and associated design requirements.
- In 2013, the American Association of State Highway and Transportation Officials (AASHTO) approved the use of Grade 100 steel in their [Interim 2013 LRFD Bridge Design Specification](#). Previously bridge designs were limited to using only 75 ksi reinforcing steel.

Design engineers can specify ChrōmX 4100 as ASTM A1035 with a modified chemistry. Grade 100 ChrōmX 4100 steel is available in various sizes of reinforcing steel (rebar), smooth rounds and flats. It is sold in North and South America by MMFX Steel Corporation of America and in the Middle East by MMFX Steel DMCC.

About MMFX Steel Corporation of America

MMFX Steel Corporation (“MMFX Steel”) is an operating subsidiary of MMFX Technologies Corporation and is based in Irvine, Calif. MMFX Steel markets and sells high-strength steel products, such as ChrōmX 4100, and its popular high-strength, corrosion-resistant steel, MMFX₂. MMFX₂ rebar has been independently proven to be five times more corrosion-resistant than and up to two times as strong as conventional steel. Sold under the specifications ASTM A1035 Grades 100 and 120, these high-strength, corrosion-resistant steels are used in bridges and highway systems, high-rise buildings, sea walls, ports, marinas and numerous commercial/industrial applications.