

CM22 ALLOY

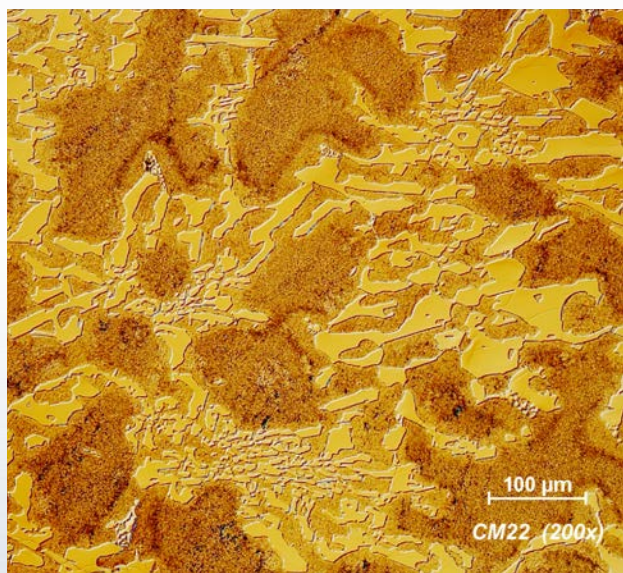
Closely Conforms to ASTM A-532 Class II with Abrasion Resistance

CM22 alloy is a Chromium/Molybdenum white iron and is recognized as providing the highest level of abrasion resistance and toughness of any white iron alloy. CM22 conforms to ASTM A532 Class II, Type B chemical requirements, but through a unique multi-step heat treating process, a structure with less than 10% retained austenite is produced resulting in excellent abrasion resistance and a good measure of toughness.

Mechanical Properties

Density	0.273 lbs/in ³
Brinell Hardness	700 min
Tensile Strength	80 - 120 KSI
Max Bend Stress / Yield Strength	113 KPSI

MICROSTRUCTURE



Chemical Analysis

Carbon	2.0% - 3.3%
Manganese	2% MAX
Silicon	1.5% MAX
Chromium	14.0% - 18.0%
Nickel	2.5% MAX
Phosphorus	0.10% MAX
Sulfur	0.06% MAX
Molybdenum	3.0% MAX
Copper	1.2% MAX
Iron	Balance

Samples of each heat are analyzed prior to pouring to ensure exact chemical composition. Microstructural analyses are performed randomly and each casting is checked for proper hardness at several intervals during production.

TOWNLEY

Engineering & Manufacturing Co., Inc.

Made in the USA



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