



FC Mill Liners, Inc.

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Materials Data Sheet

FC DuraPro™ Mill Liners

Pearlitic Chrome-Molybdenum Steel

Pearlitic Chrome-Molybdenum steels are produced to ASM international specifications and offer good abrasion resistance and the best impact toughness.* Typical applications include high impact environments such as SAG, rod, and ball mill shell liners, feed end liners, discharge end liners, lifter bars, grates, filler rings, filler blocks, pulp lifters and dischargers.

Nominal Chemical Composition

Grade	FCA-11	FCA-12	FCA-13
Equivalent Standard	ASM Low C	ASM Med C	ASM Hi C
Composition (Weight %)			
Carbon	0.60	0.70	0.80
Manganese	0.75	0.75	0.75
Silicon	0.50	0.50	0.50
Chromium	2.25	2.25	2.25
Nickel	0.2 max	0.2 max	0.2 max
Molybdenum	0.35	0.35	0.35
Phosphorus	0.03 max	0.03 max	0.03 max
Sulphur	0.03 max	0.03 max	0.03 max

Surface Brinell Hardness (BHN)			
Range	300-370	310-400	330-420

* Standard FCA alloy grades are selected based on customer's needs and can be customized to meet specific applications and challenges.