



# FC Mill Liners, Inc.

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## Summary Materials Data Sheet

### Nominal Chemical Composition\*

Grade	FC DuraPro™			FC WearPro™	FC ProLiner™		
	FCA-11	FCA-12	FCA-13	FCA-21	FCA-31	FCA-32	FCA-33
Equivalent Standard	ASM Low C	ASM Med C	ASM Hi C	ASTM A597 CH-12	ASTM A532 Class II B	ASTM A532 Class II B	ASTM A532 Class III A
<b>Composition (Weight %)</b>							
Carbon	0.60	0.70	0.80	0.35	2.65	2.65	2.65
Manganese	0.75	0.75	0.75	0.38	1.00	0.75	2.00 max
Silicon	0.50	0.50	0.50	0.75	0.75	0.55	1.50 max
Chromium	2.25	2.25	2.25	5.25	16.00	16.00	27.00
Nickel	0.2 max	0.2 max	0.2 max	-	1.25	1.25	2.50 max
Molybdenum	0.35	0.35	0.35	1.50	1.50	2.80	3.00 max
Phosphorus	0.03 max	0.03 max	0.03 max	0.03 max	0.10 max	0.10 max	0.10 max
Sulphur	0.03 max	0.03 max	0.03 max	0.03 max	0.06 max	0.06 max	0.06 max
Copper	-	-	-	-	0.60	-	1.20 max
<b>Surface Brinell Hardness (BHN)</b>							
Range	300-370	310-400	330-420	510-550	610 min	610 min	610 min

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