

ALLOY	FUNCAL NORM	A.S.T.M NORM	APLICACION	MACHINING	WELDING
CARBON STEELS	FA - 2	A - 27 - 70 - 40	Mill heads, tires, Girth gear, flywheels, couplings, crusher main frames, machine support, sugar cane dices and bumper for crushers.	Excelent	Excelent
	FA - 4	A - 148 - 80 - 40	Pinions, blades, flanges, disk for hammer crushers, rings and gear teeth for mills.	Good	Good
	FA - 5	A - 148 - 80 - 50	Wedges, wheels for mining cars, rollers.	Good	Requieres pre-heating
MANGANESE STEELS	FB - 1	A - 128 - B - 1	Hammers, crawler shoes.	Slow Motion	Good, low AMP no pre-heat
	FB - 2	A - 128 - E - 1	Castings with thickness more than 6½ feet under heavy impact.	Slow Motion	Good, low AMP no pre-heat
	FB - 3	A - 128 - E - 1	Bowl mantle 7 feet.	Slow Motion	Good, low AMP no pre-heat
	FB - 4	A - 128 - A - 1	Jaw crushers, wedges, racks, bowl and mantle up to 5 1/2 feet, other castings.	Slow Motion	Good, low AMP no pre-heat
CHROME MOLYBDENUM STEELS	FC - 2	A - 148 - GR - 140 - 120	Grate for mills, plates and grates for cement chamber divisions, liners for SAG mills, castings under abrasion and impact conditions.	Bad	Requieres pre-heating
	FC - 3	A - 148 - GR - 180 - 160	Liners for ball and rod mills, shoes for classifiers, castings under a high abrasion condition and moderate impact.	Bad	Requieres pre-heating
HIGH-STRENGTH STEELS	FX - 1	A - 217 - WC - 4	Wedges, shovel teeth, blades, corner brackets, castings for earth movement.	Bad	Requieres pre-heating
	FX - 1	A - 217 - WC - 5	Hummers, liners, grades, blades, wedges (cement industry).	Bad	Requieres pre-heating
STAINLESS STEEL	FE - 1	A - 296 - CF - 3M	Castings under corrosion condition.	Regular	Good
HEAT RESIS-TANT STEEL	FE - 2	A - 297 - HH	Parts for high temperature work.	Regular	Requieres low AMP
WHITE IRON HIGHT CHROMIUM	FF - 7 - 1	A - 532 - II - D	Liners for the cement industry, head and cylindrical liners for primary milling.	Grainding only	Not recomendable
	FF - 7 - 2	A - 532 - II - B	Head and cylindrical liners for secondary milling and/or rod mills, lifters, wedge plate, grizzly bars.	Grainding only	Not recomendable
	FF - 7 - 3	A - 532 - II - B	Shell, plate and impeller for slurry pumps.	Grainding only	Not recomendable
	FF - 7 - 4	A - 532 - II - E	Shells and plates impeller for slurry under a severe abrasion condition with no impact.	Grainding only	Not recomendable
GREY IRON	FF - 1	A - 48 - 40SA	Castings under mechanical work, trunniun, castings under pressure conditions (valves and brake drums).	Good	Not recomendable
	FF - 2	A - 48 - 20SA	Castings with 3/8 inches of thickness, castings under thermal shock, ingot molds, etc.	Good	Not recomendable
NODULAR IRON	FN - 1	A - 536 - 60 - 40	High requirement Castings with minimum thickness. Welding not allowed.	Good	Not recomendable