## SPECIALTY METALS

## TABLE: COMMON MARTENSITIC STAINLESS STEEL GRADES AND THEIR APPLICATIONS

COMMON NAME	UNS NO	FORMS AVAILABLE*	<b>TYPICAL COMPOSITIONS (%)</b>					
			с	Cr	Ni	Мо	OTHER	TYPICAL APPLICATIONS
410	S41000	Bar	0.10	12.5	-	-	-	General purpose grade for use in mildly corrosive environments.
416	S41600	Bar	0.10	12.5	-	-	0.205	Free machining variation of 410.
420	S42000	Bar	0.25	12.5	-	-	-	General engineering uses, such as pump and valve shafts.
420C	-	Sheet, Coil, Plate, Bar	0.30	12.5	-	-	-	Developed for high hardness after heat treatment. Used for cutting tools, surgical knives, etc.
431	S43100	Bar	0.18	16.0	2.0	-	-	Hardenable steel with corrosion resistance approaching 304. Used for pump shafts, etc. Should be double tempered after hardening.
440C	S44004	Bar	1.10	17.0	-	0.40	-	Capable of being hardened to 60HRC. Highest hardness and abrasion resistance of all the stainless steels. Corrosion resistance similar to 410.

\* Compatible or equivalent grades also available in castings.

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