

SPECIALTY METALS

TABLE: COMMON FERRITIC STAINLESS STEEL GRADES AND THEIR APPLICATIONS

COMMON NAME	UNS NO	FORMS AVAILABLE*	C	Cr	Mo	Ti	OTHER	TYPICAL APPLICATIONS
409	S40900	Sheet, Coil	0.02	11.5	-	0.25	-	Heat resistant steel, easily formed and welded. Mainly used for automotive exhausts or welded applications where superior performance to galvanised steel is required.
446	S44600	Tube, Pipe	0.15	24.0	-	-	-	Used for severe heat resistant applications up to 1200°C. In recuperators, highly resistant to sulphidation and oil ash corrosion.
430	S43000	Sheet, Coil, Plate, Bar	0.03	17.0	-	-	-	Interior architectural components, stove and automotive trim, dishwasher and clothes dryer lines. Fusion welds tend to be brittle.
444	S44400	Sheet, Coil	0.02	18.5	2.0	0.4	-	Heat exchanger and hot water tanks, and in chloride-containing waters. Not prone to chloride stress corrosion - superior resistance to pitting, crevice and intergranular corrosion. Possesses excellent deep drawing properties.
1.4003	S41003	Plate, Sheet, Coil	0.02	11.5	-	-	-	Mildly corrosive environments where better life cycle cost is obtainable than with carbon or galvanised steel. Usually referred to by proprietary designations, eg. 3CR12 or 5CR12.

* Compatible or equivalent grades also available in castings.