

BS1449 HR50F45steel plate/sheet High yield strength for cold forming steels

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BS1449 HR50F45is mainly used as high yield strength steels for cold-forming steels.

The BS1449 HR50F45steel is equivalent to SEW092 QStE420TM, NFA E420D, UNI FeE420TM, ASTM X60XLK and EN S420MC steel grades.

HR50F45 BS1449 Number:1.0980	Comparision of steel grades	
	SEW092	QStE 420TM
	NFA36-231	E420D
	UNI8890	FeE420TM
	ASTM	060XLK
	EN 10149-2	S420MC

Chemical Composition of HR50F45 steel,by %

Grade	C max	Si max	Mn max	P max	S max	AL max	Nb max	V max	Ti max
HR50F45	0.12	0.50	1.6	0.025	0.015	0.015	0.09	0.2	0.15

Mechanical Properties of HR50F45 steel

Nominal thickness(mm)	-
ReH-Minimum yield strength(Mpa)	420

Nominal thickness(mm)	-
Rm-Tensile strength(Mpa)	480-620

Nominal thickness(mm)	From3
A-Minimum elongation Lo=5,65√So(%)	19

Nominal thickness(mm)	to3
A-Minimum elongation Lo=Lo=80mm(%)	16

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