

15NiMo14-2* All

General Information

15NiMo14-2* or SAE 4815 as it is also named in US standards is a case hardening steel used in forgings to eg rock drilling tools.

Similar designations

SAE 4815

Chemical composition

Variant	Cast	Weldability		C%	Si%	Mn %	P%	S%	Cr%	Ni%	Mo%	Cu%
4707	CC	CEV 0.58 _{max}	Min	0.13	0.20	0.40	-	-	-	3.35	0.20	-
		Pcm 0.29 _{max}	Max	0.17	0.30	0.60	0.025	0.015	0.25	3.55	0.30	0.25

Transformation temperatures

	Temperature °C
MS	393
AC1	671
AC3	791

Other properties (typical values)

Youngs module (GPa)	Poisson´s ratio (-)	Shear module (GPa)	Density (kg/m3)
210	0.3	80	7800
Average CTE 20-300°C (µm/m°K)	Specific heat capacity 50/100°C (J/kg°K)	Thermal conductivity Ambient temperature (W/m°K)	Electrical resistivity Ambient temperature (µΩm)
12	460 - 480	40 - 45	0.20 - 0.25

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