

## 15NiMo14-2\* All

### General Information

15NiMo14-2\* or 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	CEV0.58 <sub>max</sub>	Mn	0.13	0.20	0.40	-	-	-	3.35	0.20	-
		Pcm 0.29 <sub>max</sub>	Max	0.17	0.30	0.60	0.025	0.015	0.25	3.55	0.30	0.25

## Mechanical Properties

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### Variant

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*R<sub>p0.2</sub> \* R<sub>eh</sub>, \*\* R<sub>el</sub>*

### 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/m <sup>3</sup> )
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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