Material data sheet
Steel grade

Last revised: Tue, 30 May 2023 14:10:38 GMT

OVAKO

E355 All

General Information

E355 is a basic quality steel for various construction and engineering purposes, used in eg. mining applications as drill tubes.

Similar designations

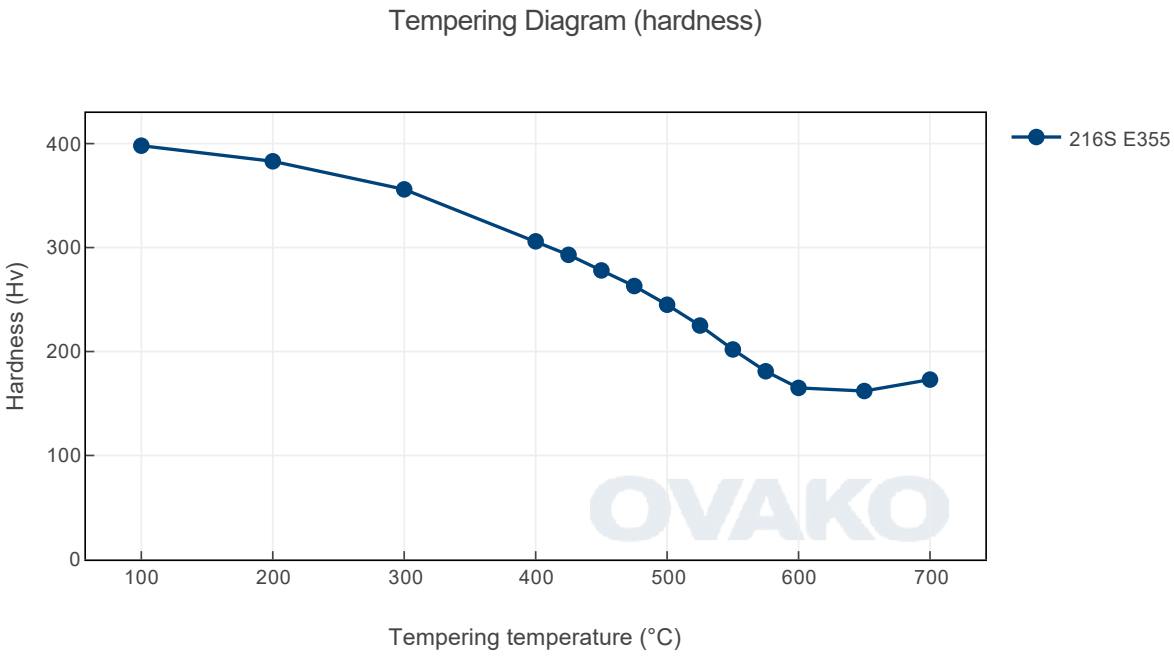
S355, 1.0580

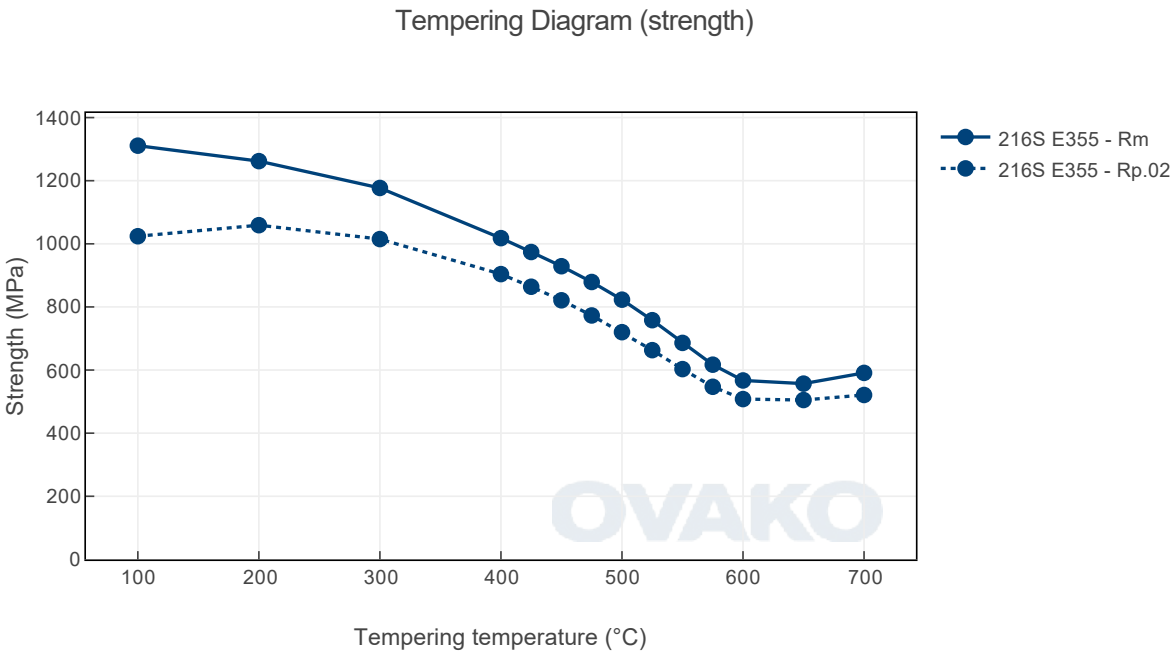
Chemical composition

Variant	Cast		C %	Si %	Mn %	P %	S %	Cr %	Al %
216S	CC	Min	0.14	0.15	1.10	-	0.010	0.16	0.020
		Max	0.17	0.50	1.30	0.025	0.025	0.26	0.050
EN 10305-1	Std	Min	-	-	-	-	-	-	0.020
		Max	0.22	0.55	1.60	0.025	0.025	-	-

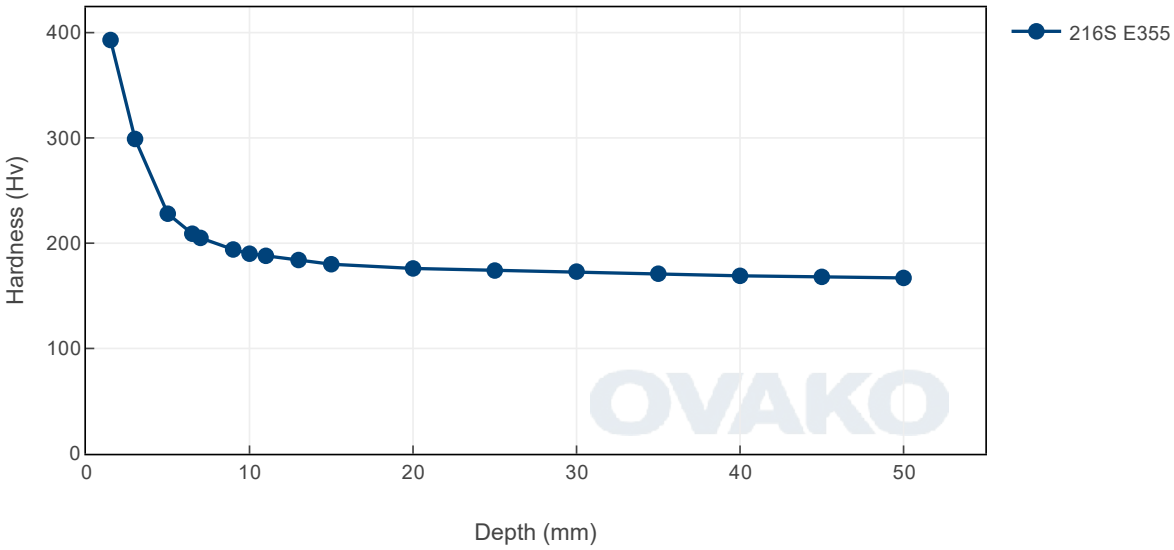
Heat Treatment Guide generated Graphs

The following graphs are generated from a theoretical model. For further info see the Heat treatment guide module. Select a specific grade version for individual display.





Jominy



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 resistivityAmbient temperature (µΩm)**
12	460 - 480	40 - 45	0.20 - 0.25

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