

Heat Treatment for Steel Materials

Name	Material Standard (JIS)	Typical Heat Treat	Grade	Applicable	Applicable	Reference
Temper rolling	SS 400	Full depth	Non-alloy steels	SA500-SS400	SA500-SS400	Standard tempering applied to an expanded austenite steel. The tempering is performed using cooling in an aqueous solution to obtain a certain hardness in tempering depth. Not applicable to large or medium size, such as shafts, etc.
Normalizing	SS 400	Standard depth	Steels	SA500-SS400	SA500-SS400	Applicable to cold working. The tempering depth is the specified tempering depth. Applicable to medium size.
Normalizing	SS 400	1/2	High	SA500-SS400	SA500-SS400	A normalizing tempering method that uses hot tempering medium. Applicable to cold working. Applicable to cold working. Applicable to small size, such as springs, etc.
Quenching	SS 400	1/2	Low	SA500-SS400	SA500-SS400	A normalizing tempering method that uses cooling in a hot oil medium. Applicable to cold working. Applicable to cold working. Applicable to small size, such as springs, etc.
Tempering in the tempering of carbon steel, low-alloy steel, and high-alloy steel	SA500-SS400, SA500-SS400	1/2	Low	SA500-SS400	SA500-SS400	Applicable to cold working. Applicable to cold working. Applicable to small size, such as springs, etc.
None	-	-	-	SA500-SS400	SA500-SS400	Not applicable. Applicable to cold working. Applicable to cold working. Applicable to small size, such as springs, etc.

Hardness Test Methods and Applicable Parts

Testing Method	Principle	Applicable Heat Treatment	Features	Reference
Rockwell Hardness	A diamond indenter is used to measure the hardness of a material. The hardness is measured by the depth of the indentation.	SA500-SS400, SA500-SS400	Applicable to cold working. Applicable to cold working. Applicable to small size, such as springs, etc.	JIS B 7722
Brinell Hardness	The hardness is measured by the depth of the indentation of a diamond indenter. The hardness is measured by the depth of the indentation.	SA500-SS400, SA500-SS400	Applicable to cold working. Applicable to cold working. Applicable to small size, such as springs, etc.	JIS B 7722
Shore Hardness	The hardness is measured by the depth of the indentation of a diamond indenter. The hardness is measured by the depth of the indentation.	SA500-SS400, SA500-SS400	Applicable to cold working. Applicable to cold working. Applicable to small size, such as springs, etc.	JIS B 7722
Rockwell Hardness	A diamond indenter is used to measure the hardness of a material. The hardness is measured by the depth of the indentation.	SA500-SS400, SA500-SS400	Applicable to cold working. Applicable to cold working. Applicable to small size, such as springs, etc.	JIS B 7722

General Steel Materials

Type	Material Size	Grade	Heat Treat	Hardness Reference			
SA500-SS400	100mm	SA500-SS400	1	SA500-SS400			
			2	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	3	SA500-SS400			
			4	SA500-SS400			
			5	SA500-SS400			
			6	SA500-SS400			
			7	SA500-SS400			
			8	SA500-SS400			
			9	SA500-SS400			
			10	SA500-SS400			
			11	SA500-SS400			
			12	SA500-SS400			
			13	SA500-SS400			
			14	SA500-SS400			
			15	SA500-SS400			
			16	SA500-SS400			
			17	SA500-SS400			
			18	SA500-SS400			
			19	SA500-SS400			
			20	SA500-SS400			
			SA500-SS400	100mm	SA500-SS400	1	SA500-SS400
			SA500-SS400	100mm	SA500-SS400	2	SA500-SS400
SA500-SS400	100mm	SA500-SS400	3	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	4	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	5	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	6	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	7	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	8	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	9	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	10	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	11	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	12	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	13	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	14	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	15	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	16	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	17	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	18	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	19	SA500-SS400			
SA500-SS400	100mm	SA500-SS400	20	SA500-SS400			



# Hardening And Hardness Test Methods Standard Material Sizes 1

**Karin Nielsen-Saines**

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