

# EX-SUS

\*The SUZUKI-SUMIDEN Stainless Steel Wire product EX-SUS is a high-strength stainless steel wire for springs that has high-strength and excellent corrosion resistance as well.

## <Features>

1. Has even higher tensile strength than SUS304-WPB (realized tensile strength equal to SWP-B (music wire) after tempering)
2. Has high formability equivalent to that of SUS304-WPB
3. Allows wider range of tempering temperature than that for SUS304-WPB (300°C to 450°C)
4. Has high corrosion resistance equivalent to that of SUS304

## <Chemical composition>

	(%)					
	C	Si	Mn	Ni	Cr	Other
EX-SUS	0.07 max	1.00 max	4.00 to 5.50	4.00 to 5.00	16.00 to 18.00	Mo, N
For reference SUS304	0.08 max	1.00 max	2.00 max	8.00 to 9.50	17.00 to 19.00	—

## <Specifications>

Wire diameter (mm)	Tensile strength (N/mm <sup>2</sup> )	Reference		Tolerance (mm)	Ovality (mm)	Packaging and standard weights	
		SWP-A	SUS304-WPB			Coils (kg)	Reels (kg)
0.10	2700 to 3000	2790 to 3090	2150 to 2400	-0.001 -0.004	0.003 max	0.6	2
0.12		2750 to 3040				1	7
0.14	2700 to 2990	2					
0.16	2650 to 2900	2.5					
0.18	2600 to 2900	2600 to 2890				3.5	
0.28	2550 to 2850	2600 to 2840				4.5	
0.23	2500 to 2800	2550 to 2790	2050 to 2300	-0.001 -0.005	0.003 max	8	30
0.26	2450 to 2750	2500 to 2750					
0.29	2400 to 2700	2450 to 2700					
0.32	2350 to 2650	2400 to 2650					
0.35							
0.40	2300 to 2600	2350 to 2600	13	40			
0.45	2250 to 2550	2300 to 2550	15		—		
0.50	2200 to 2450	2260 to 2500		1950 to 2200		25	
0.55							
0.60	2150 to 2400	2210 to 2450	1850 to 2100	-0.001 -0.007	0.005 max	30	—
0.65	2100 to 2350	2160 to 2400					
0.70							
0.80	2050 to 2300	2110 to 2350	1850 to 2100	50	—		
0.90						2110 to 2300	
1.00	2000 to 2250	2060 to 2260	1750 to 2000	+0 -0.015	0.007 max	60	—
1.20	1950 to 2200	2010 to 2210					
1.40	1900 to 2150	1960 to 2160	1650 to 1900	80	—		
1.60	1850 to 2100	1910 to 2110					
1.80	1800 to 2050	1860 to 2060					

\* Please ask about products with special specifications.

For Inquiries/Contact Information:



**SUZUKI-SUMIDEN STAINLESS STEEL WIRE CO., LTD.**

Head Office/Sales

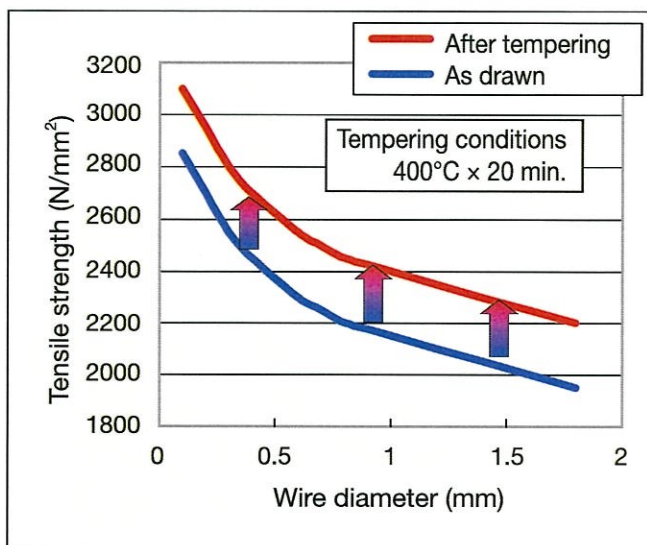
TEL. +81-3-3214-4116

Midwestern Japan Branch

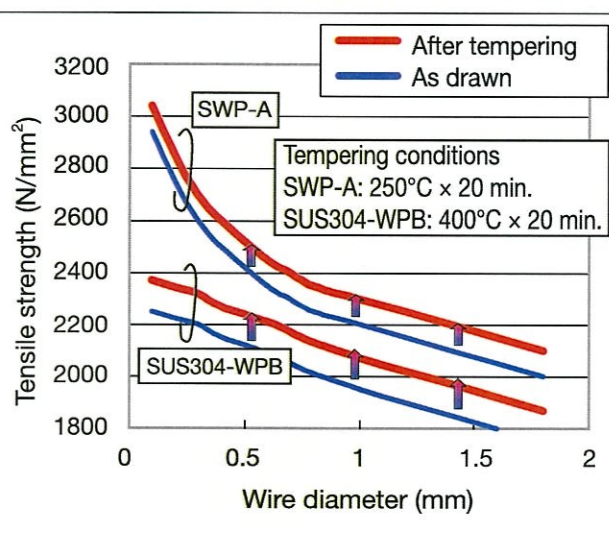
TEL. +81-52-564-7300

## <Tensile properties>

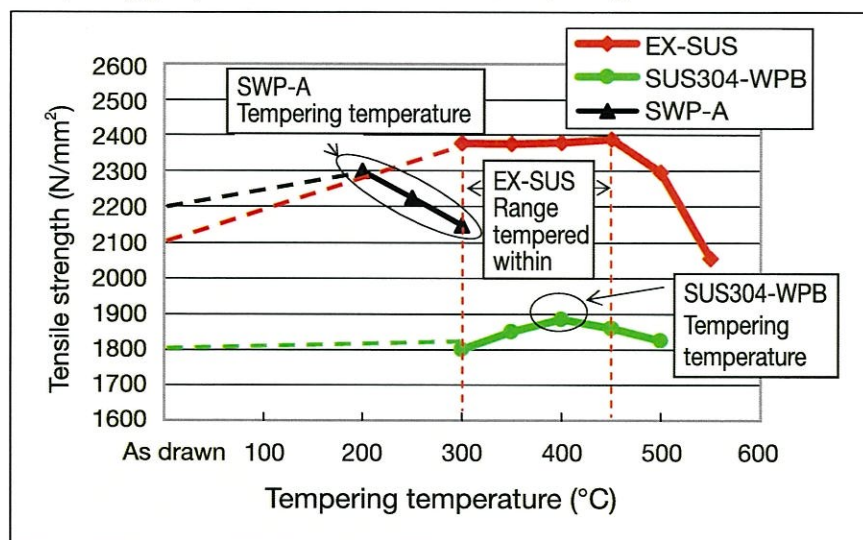
Wire diameters and tensile strengths for EX-SUS



Wire diameters and tensile strengths for SWP-A and SUS304WPB for reference



Tempering properties for EX-SUS and comparing materials



## <Corrosion resistance>

	Salt spray testing		Pitting potential
	Before tempering	After tempering	V vs. SCE
EX-SUS	No rust	Slight rust	0.47 to 0.53
SUS304-WPB for reference			0.43 to 0.45
	* Non-nickel plating 35°C x 720 h		* Sample surface adjustment With #1200 emery paper

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