

# Super Dolce

## <Features>

- high tensile strength (=SUS631J1)
- high heat resistance (=SUS631J1)
- high corrosion resistance (=SUS316)
- non-magnetic (=SUS316)

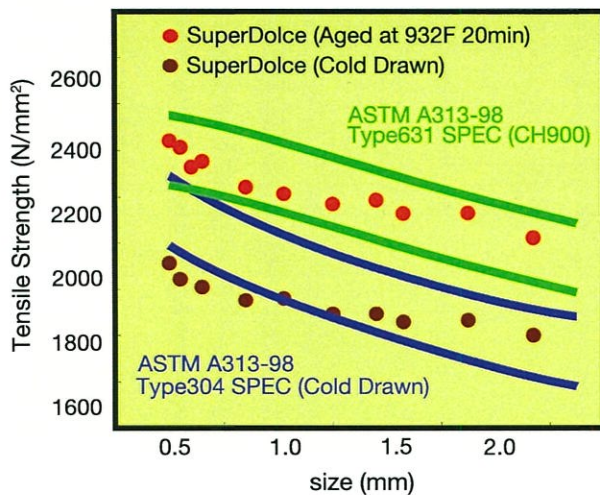
## <Chemical composition> (%)

Type 304 + Mo,N

	C	Mn	Si	Cr	Ni	Others
SuperDolce	0.08 max	2.00 max	1.00 max	18.00 to 20.0	8.00 to 10.5	Mo, N
Type 302	0.12 max	2.00 max	1.00 max	17.0 to 19.0	8.0 to 9.5	
Type 631	0.09 max	1.00 max	1.00 max	16.0 to 18.0	6.5 to 7.8	Al

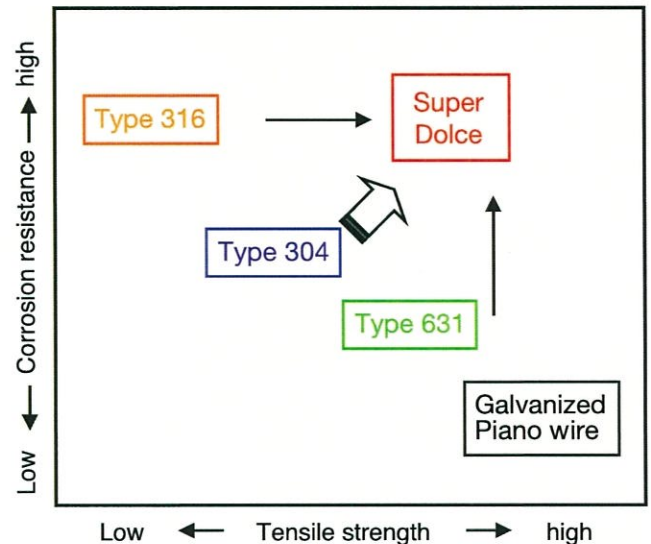
## <High Tensile strength>

- Achieved tensile strength exceeding that of general-grade materials (SUS304) and equivalent to that of SUS631J1-WPC after aging



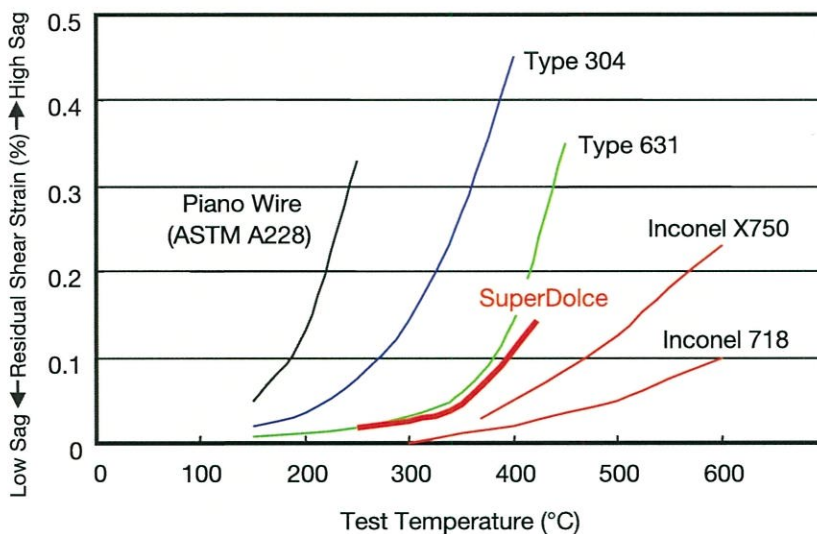
## <High Corrosion Resistance>

- Realized high corrosion resistance exceeding that of general-grade materials (SUS304) and equivalent to that of SUS316



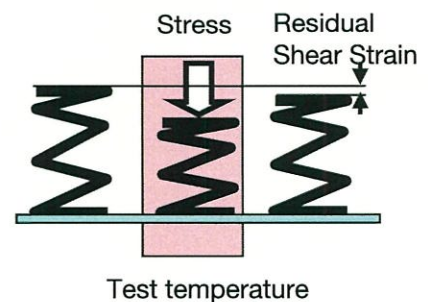
## <High Heat Resistance>

- Realized heat and sag resistance that greatly exceeds that of general-grade materials (SUS304)
- Has sag resistance that is equivalent to or greater than that of SUS631J1-WPC, a high grade material



## <Test Condition>

Stress 637MPa  
Time 20Hour  
Air environment



For Inquiries/Contact Information:



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## <Standard wire diameter and specifications for SuperDolce>

Wire diameter (mm)	Tensile strength (N/mm <sup>2</sup> )		Diameter tolerance (mm)		Ovality (mm)		Coil diameter (mm)	Coil weight (kg)
	Before aging	After aging*1	SSS Standards	JIS Standards	SSS Standards	JIS Standards		
0.50	1850 to 2100	2200 to 2450	-0.001 -0.007	±0.010	0.005 or less	0.010 or less	300	25
0.55								30
0.60								30
0.65	1850 to 2100	2200 to 2450	-0.015	±0.015	0.007 or less	0.015 or less	450	50
0.70								75
0.80								75
0.90								75
1.00	1750 to 2000	2100 to 2350	-0.015	±0.015	0.007 or less	0.015 or less	450	75
1.20								95
1.40	1700 to 1950	2000 to 2250	±0.020	±0.020	0.020 or less	0.020 or less	550	95
1.60								100
1.80								100
2.00								100
2.30			±0.020		0.020 or less			100

\*1) Reference value: Aging conditions of 500°C for 20 minutes

## <Surface grades and properties>

Name	Symbol	Surface grade	Properties
SS Bright	SS	Ni coating and heavy lubrication	SS Bright has strong surface lubricity and is suitable for small D/d processing and high-speed coiling.
Parmos	PAR	Ni coating and standard lubrication	Parmos is a standard product for precision springs.
PRM	PRM	Ni coating and special light lubrication	PRM is stainless steel wire for use in precision springs that has increased surface purity and brightness while maintaining the processibility of Parmos.
New white	NWH	Soap coating	NWH has increased surface brightness as a result of hot-water washing. It is suitable for applications in which nickel-plated products cannot be used.
Bare	B	Non-coating	Bare has no surface coating and is suitable for use in applications with an aversion to dirt.

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