

Property of High Performance Stainless Steel Screws

● Mechanical property

Property	SUS316L HiMo [SNSX-88]	SUS316L HiMo [SNSX-109]	NSSC-550 [SPFS]	SUS316L [SNSL]	SUS310S [SNSJ]	SUSXM7*
Tensile strength (N/mm ²)	800	1,000	1,000	700	520	700
0.2% durability (N/mm ²)	640	900	770	450	205	450
Extension (mm)	0.3d	0.2d	—	0.4d	—	0.4d
Magnetic	Nonmagnetic	Nonmagnetic	Magnetic	Nonmagnetic	Nonmagnetic	Nonmagnetic

* Value of tensile strength ranking A2 - 70.

● Values in chart are for reference only. They are not guaranteed values.

● Yield load (N)

Screw diameter	SUS316L HiMo [SNSX-88]	SUS316L HiMo [SNSX-109]	NSSC-550 [SPFS]	SUS316L [SNSL]	SUS310S [SNSJ]	SUSXM7*
M3	3,200	—	3,850	2,300	1,030	2,300
M4	5,600	—	6,750	4,000	1,790	4,000
M5	9,100	—	10,900	6,400	2,910	6,400
M6	12,900	18,100	15,400	9,000	4,120	9,000
M8	23,400	32,900	28,100	16,500	7,500	16,500
M10	—	52,200	44,500	26,100	11,800	26,100
M12	—	75,800	—	37,900	—	37,900

* Value of tensile strength ranking A2 - 70.

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● Durability by temperature (N/mm²)

Part number and materials	20°C	100°C	200°C	300°C	400°C	500°C	600°C
SUS316L HiMo [SNSX-88]	640	576	576	544	512	480	448
SUS316L HiMo [SNSX-109]	900	855	855	855	810	810	765
SUSXM7	450	382	360	337	315	—	—
SCM435	1,100	1,020	925	825	—	—	—

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● Nonmagnetic

Part number and materials	Magnetic permeability
SUS316L HiMo [SNSX-88]	1.006
SUS316L HiMo [SNSX-109]	1.007
SUS316L [SNSL]	1.006
SUSXM7	1.4

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