



Properties of High Performance Stainless Steel Screws

● Mechanical Properties

Properties	SUS316L SNSLG	SUS316L HiMo SNSX-88	SUS316L HiMo SNSX-109	SUS310S SNSJ	UNS S31803 SNHDS	SUSXM7*
Tensile Strength (N/mm ²)	1,000	800	1,000	520	620	700
0.2% Proof Stress (N/mm ²)	800	640	900	205	450	450
Elongation (mm)	0.3d	0.3d	0.2d	–	–	0.4d
Magnetic	Non-Magnetic	Non-Magnetic	Non-Magnetic	Non-Magnetic	Magnetic	Non-Magnetic

* Values for Strength Class A2 - 70.

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

● Yield load (N)

Thread	SUS316L SNSLG	SUS316L HiMo SNSX-88	SUS316L HiMo SNSX-109	SUS310S SNSJ	UNS S31803 SNHDS	SUSXM7*
M3	4,020	3,200	–	1,030	2,300	2,300
M4	7,020	5,600	–	1,790	4,000	4,000
M5	11,300	9,100	–	2,910	6,400	6,400
M6	16,000	12,900	18,100	4,120	9,000	9,000
M8	29,200	23,400	32,900	7,500	16,500	16,500
M10	46,400	–	52,200	11,800	26,100	26,100
M12	–	–	75,800	–	37,900	37,900

* Values for Strength Class A2 - 70.

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● Proof Stress by Temperature (N/mm²)

Part Number • Material	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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● Non-Magnetic

Part Number • Material	Amplitude Permeability
SUS316L SNSLG	1.008
SUS316L HiMo SNSX-88	1.006
SUS316L HiMo SNSX-109	1.007
SUSXM7	1.4

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