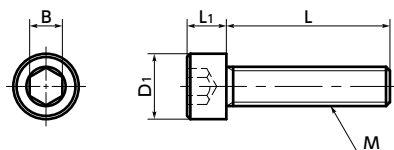


# SNSMT Hex Socket Head Cap Screws (MAT21)

Cleanroom wash & packaging Chemical-proof



• Engraved on the top of the head to distinguish it from other materials

• Material/Finish



	<b>SNSMT</b>
Main Body	UNS N06210 (MAT21 *1)

\*1: MAT and MAT21 are registered trademarks of Proterial, Ltd.

- Corrosion resistant alloy steel MAT21 hex socket head cap screws.
- MAT21 demonstrates excellent corrosion resistance in both oxidizing and reducing environments.
- In a wide range of corrosive environments, it demonstrates better corrosion resistance than Hastelloy \*1 C-22 and C-276.
- Cleanroom wash/cleanroom packing provided.
- Equivalent to JIS B 1176, ISO 4762, and DIN 912.

\*1: Hastelloy is a registered trademark of Haynes International, Inc.

• Application

FPD production equipment / Semiconductor devices / Printed circuit board etching devices / Metallic surface treatment equipment and facilities / Chemical plants

Unit : mm

Part Number <span style="color: red;">1</span>	M (Coarse)		L <span style="color: red;">2</span>										D1	L1	B	Tension Rupture Load *1 (N)	Mass (g)
	Nominal of Thread	Pitch	6	8	10	12	16	20	25	30	35						
<b>SNSMT-M3</b>	M3	0.5											5.5	3	2.5	3470	0.8 - 1.5
<b>SNSMT-M4</b>	M4	0.7											7	4	3	6050	1.8 - 3.5
<b>SNSMT-M5</b>	M5	0.8											8.5	5	4	9790	3 - 5.3
<b>SNSMT-M6</b>	M6	1											10	6	5	13800	5.6 - 9.3
<b>SNSMT-M8</b>	M8	1.25											13	8	6	25200	13 - 21

\*1: Values in chart are for reference only. They are not guaranteed values.

• Mechanical property

	MAT21 (UNS N06210)	SUS304
Tensile Strength (N/mm <sup>2</sup> )	690	520 or More
0.2% Proof Load (N/mm <sup>2</sup> )	310	205 or More
Elongation (%)	45	40 or More

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• Physical property

	MAT21 (UNS N06210)	SUS304
Specific Gravity	8.76	7.93
Longitudinal Elastic Modulus (GPa)	205	193
Specific Heat (J/kg·K)	414	500
Electric Resistance (μΩ·m)	1.274	0.7
Linear Expansion Coefficient (K <sup>-1</sup> )	12.0 x 10 <sup>-6</sup>	17.3 x 10 <sup>-6</sup>

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

• Chemical Resistance

Chemical Name	Composition (%)	Temperature	MAT21 (UNS N06210)	Hastelloy C-22	Hastelloy C-276	SUS316L
HCl	1	Boiling Point	⊙	○	○	×
	2	Boiling Point	⊙	×	△	×
	4	Boiling Point	△	×	×	—
	5	Boiling Point	△	×	×	—
H <sub>2</sub> SO <sub>4</sub>	10	Boiling Point	⊙	○	△	×
	40	Boiling Point	△	×	×	—
Mixed Fluids	H <sub>2</sub> SO <sub>4</sub>	10				
	HCl	2	Boiling Point	△	×	×
Mixed Fluids	H <sub>2</sub> SO <sub>4</sub>	20	80°C	⊙	×	△
	HCl	1.5				×
Mixed Fluids	H <sub>2</sub> SO <sub>4</sub>	50	50°C	○	○	○
	HCl	1.5				—
HNO <sub>3</sub>	10	Boiling Point	⊙	⊙	○	—
H <sub>3</sub> PO <sub>4</sub>	85	Boiling Point	○	×	×	×
Method B	※	Boiling Point	○	⊙	△	×

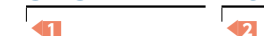
※ 23.0% sulfuric acid + 1.2% hydrochloric acid + 1% iron (III) chloride + 1% copper (II) chloride

- ⊙ : <0.127 mm/year
- : 0.127 - 0.508 mm/year
- △ : 0.508 - 1.27 mm/year
- × : >1.27 mm/year

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

• Part number specification

**SNSMT-M4-16**



Batch cleanroom packing is provided for orders containing multiple items of the same size.