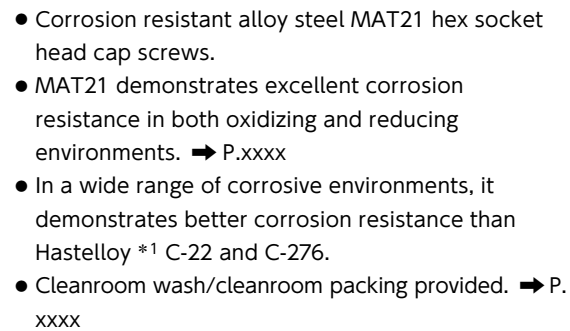


*1: MAT and MAT21 are registered trademarks of Hitachi Metals, Ltd.



- Corrosion resistant alloy steel MAT21 hex socket head cap screws.
 - MAT21 demonstrates excellent corrosion resistance in both oxidizing and reducing environments. ➔ P.xxxx
 - 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. ➔ P.xxxx
- * 1 : Hastelloy is a registered trademark of Haynes International, Inc.

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

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

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

- | | 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 ($\mu\Omega \cdot m$) | 1.274 | 0.7 |
| Linear Expansion Coefficient (K ⁻¹) | 12.0×10^{-6} | 17.3×10^{-6} |

- | 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 ₂ SO ₄ | | 10 | Boiling Point | ☉ | ○ | △ | × |
| | | 40 | Boiling Point | △ | × | × | — |
| Mixed Fluids | H ₂ SO ₄ | 10 | Boiling Point | △ | × | × | — |
| | HCl | 2 | | | | | |
| Mixed Fluids | H ₂ SO ₄ | 20 | 80°C | ☉ | × | △ | × |
| | HCl | 1.5 | | | | | |
| Mixed Fluids | H ₂ SO ₄ | 50 | 50°C | ○ | ○ | ○ | — |
| | HCl | 1.5 | | | | | |
| HNO ₃ | | 10 | Boiling Point | ☉ | ☉ | ○ | — |
| H ₃ PO ₄ | | 85 | Boiling Point | ○ | × | × | × |
| Method B | | ※ | Boiling Point | ○ | ☉ | △ | × |

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

- ## SNSMT-M4-16

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