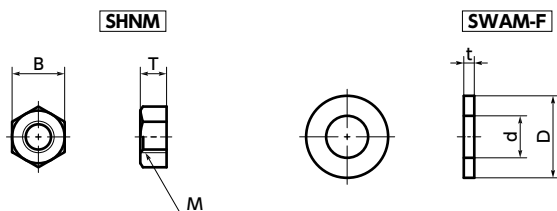




SHNM/SWAM Hex Nuts, Washers - Molybdenum

Cleanroom wash & packaging Heat-resistance



● Mechanical property

| | Pure Molybdenum | SUS304 |
|--|-----------------|---------------|
| Tensile Strength (N/mm ²) | 515 | 520 or Higher |
| 0.2% Proof Stress (N/mm ²) | 380 | 205 or Higher |
| Elongation (%) | 15 | 40 or Higher |

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

● Physical property

| | Pure Molybdenum | SUS304 |
|---|----------------------|-----------------------|
| Specific Gravity | 10.2 | 7.93 |
| Longitudinal Elastic Modulus (GPa) | 327 | 193 |
| Electric Resistance ($\mu\Omega \cdot m$) | 0.058 | 0.7 |
| Thermal Conductivity (W / (m · K)) | 142 | 17 |
| Linear Expansion Coefficient (K ⁻¹) | 5.1×10^{-6} | 17.3×10^{-6} |

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

● These nuts and washers are made of pure molybdenum.

● Melting Point: 2623 deg C. Excellent heat resistance.

● Application

Sputtering equipment and high temperature furnaces

● Material/Finish



| | SHNM | SWAM |
|-----------|-----------------|-----------------|
| Main Body | Pure Molybdenum | Pure Molybdenum |

Precautions for Use

Note that in an oxidizing atmosphere, sublimation will begin at 600°C or higher.

SHNM Hex Nuts - Molybdenum

Unit : mm

| Part Number | M (Coarse) | | B | T | Mass (g) |
|-------------|-------------------|-------|-----|-----|----------|
| | Nominal of Thread | Pitch | | | |
| SHNM-M3 | M3 | 0.5 | 5.5 | 2.4 | 0.44 |
| SHNM-M4 | M4 | 0.7 | 7 | 3.2 | 1 |
| SHNM-M5 | M5 | 0.8 | 8 | 4 | 1.6 |
| SHNM-M6 | M6 | 1 | 10 | 5 | 3.2 |
| SHNM-M8 | M8 | 1.25 | 13 | 6.5 | 7.1 |

SWAM-F Plain Washers - Molybdenum

Unit : mm

| Part Number | Nominal | d | D | t | Mass (g) |
|-------------|---------|-----|------|-----|----------|
| SWAM-3-F | 3 | 3.2 | 7 | 0.5 | 0.16 |
| SWAM-4-F | 4 | 4.3 | 9 | 0.8 | 0.4 |
| SWAM-5-F | 5 | 5.3 | 10 | 1 | 0.58 |
| SWAM-6-F | 6 | 6.4 | 12.5 | 1.6 | 1.5 |
| SWAM-8-F | 8 | 8.4 | 17 | 1.6 | 2.8 |

● Part number specification

SHNM-M5



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

| | | | | |
|---------------------------|-------------------------------------|----------------------------------|------------------------------|---|
| Individual Sales → P.0000 | Cleanroom Wash & Packaging → P.0000 | Screw Length Adjustment → P.0000 | Vibration Resistant → P.0000 | Modification process for captive use → P.0000 |
| 1 piece in 1 pack | Cleanroom washed and packed | Not Available | Not Available | Not Available |