

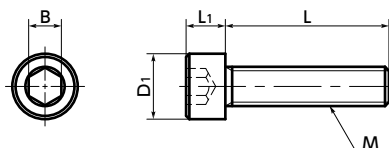


# SNSIV Hex Socket Head Cap Screws - Super Invar

WEB Selection Tool

WEB CAD Download

Cleanroom wash & packaging



## • Mechanical property

|                                        | Super Invar | SUS304        |
|----------------------------------------|-------------|---------------|
| Tensile Strength (N/mm <sup>2</sup> )  | 470         | 520 or Higher |
| 0.2% Proof Stress (N/mm <sup>2</sup> ) | 333         | 205 or Higher |
| Elongation (%)                         | 43          | 40 or Higher  |
| Hardness (HV)                          | 143         | 200 or Less   |

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

## • Physical property

|                                                 | Super Invar           | SUS304                |
|-------------------------------------------------|-----------------------|-----------------------|
| Specific Gravity                                | 8.15                  | 7.93                  |
| Longitudinal Elastic Modulus (GPa)              | 132                   | 193                   |
| Electric Resistance ( $\mu\Omega \cdot m$ )     | 0.77                  | 0.7                   |
| Thermal Conductivity (W/(m·K))                  | 10.47                 | 17                    |
| Linear Expansion Coefficient (K <sup>-1</sup> ) | $0.69 \times 10^{-6}$ | $17.3 \times 10^{-6}$ |

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- Super Invar is a special alloy with an extremely low linear expansion coefficient, and its dimensions change very little due to temperature.
- For measurement and precision instruments which do not allow changes in dimensions due to thermal expansion.
- For Prevention from loosening and damage due to differences in thermal expansion.
- Linear Expansion Coefficient:  
 $0.69 \times 10^{-6} (K^{-1})$  (30 deg C - 100 deg C)

## • Application

Precision and measurement instruments

## • Material/Finish

RoHS2 Compliant

|           | SNSIV       |
|-----------|-------------|
| Main Body | Super Invar |

Unit : mm

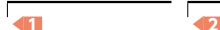
| Part Number     | M  | L                 | D1  | L1 | B   | Tension*1<br>Rupture Load (N) | Mass (g)   |
|-----------------|----|-------------------|-----|----|-----|-------------------------------|------------|
| <b>SNSIV-M3</b> | M3 | 6 8 10 12 16 20   | 5.5 | 3  | 2.5 | 2360                          | 0.74 - 1.4 |
| <b>SNSIV-M4</b> | M4 | 8 10 12 16 20 25  | 7   | 4  | 3   | 4120                          | 1.7 - 3.3  |
| <b>SNSIV-M5</b> | M5 | 10 12 16 20 25 30 | 8.5 | 5  | 4   | 6670                          | 2.8 - 5    |
| <b>SNSIV-M6</b> | M6 | 12 16 20 25 30 35 | 10  | 6  | 5   | 9440                          | 5.3 - 8.7  |
| <b>SNSIV-M8</b> | M8 | 16 20 25 30 35    | 13  | 8  | 6   | 17200                         | 13 - 20    |

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

| Part Number     | Qty per Pack |
|-----------------|--------------|
| <b>SNSIV-M3</b> | 1            |
| <b>SNSIV-M4</b> | 1            |
| <b>SNSIV-M5</b> | 1            |
| <b>SNSIV-M6</b> | 1            |
| <b>SNSIV-M8</b> | 1            |

## • Part number specification

**SNSIV-M5 - 16**



|                             |                                     |                                  |                              |                                               |
|-----------------------------|-------------------------------------|----------------------------------|------------------------------|-----------------------------------------------|
| 1 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 unit in 1 bag             | Cleanroom washed and packed         | Available / Add'l charge         | Available / Add'l charge     | Available / Add'l charge                      |