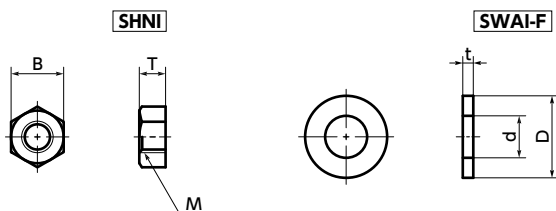




# SHNI/SWAI Hex Nuts / Washers - Inconel

Cleanroom wash & packaging
 Heat-resistance
 Chemical-proof



## ● Mechanical property

	Inconel (UNS N06600)	SUS304
Tensile Strength (N/mm <sup>2</sup> )	548 - 695	520 or More
0.2% Proof Load (N/mm <sup>2</sup> )	205 - 352	205 or More
Elongation (%)	35 - 55	40 or More
Hardness (HRB)	65 - 85	90 or Less

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

## ● Physical property

	Inconel (UNS N06600)	SUS304
Specific Gravity	8.42	7.93
Longitudinal Elastic Modulus (GPa)	207	193
Specific Heat (J/kg·K)	444	500
Electric Resistance (μΩ·m)	1.0	0.7
Thermal Conductivity (W/(m·K))	16.7	17
Linear Expansion Coefficient (K <sup>-1</sup> )	13.4 x 10 <sup>-6</sup>	17.3 x 10 <sup>-6</sup>

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

- Screws show excellent corrosion resistance against oxidizing and reducing by inorganic and organic acids. → P.xxxx
- Excellent resistance to stress corrosion cracking caused by hydrogen sulfide ions.
- Nearly complete corrosion resistance against ammonia.
- Excellent heat resistance and creep resistance. High strength even near 600 deg C.

## ● Application

FPD production equipment, semiconductor devices, printed circuit board etching devices, metallic surface treatment equipment and facilities, and chemical plants

## ● Material/Finish



	SHNI	SWAI
Main Body	NCF600 (Inconel*1)	NCF600 (Inconel*1)

\*1 : Inconel is a registered trademark of Special Metals Corporation.

## SHNI Inconel Hex Nuts

Unit : mm

Part Number	M (Coarse)		B	T	Mass (g)
	Nominal of Thread	Pitch			
<b>SHNI-M3</b>	M3	0.5	5.5	2.4	0.37
<b>SHNI-M4</b>	M4	0.7	7	3.2	0.86
<b>SHNI-M5</b>	M5	0.8	8	4	1.3
<b>SHNI-M6</b>	M6	1	10	5	2.6
<b>SHNI-M8</b>	M8	1.25	13	6.5	5.9

## SWAI-F Plain Washers - Inconel

Unit : mm

Part Number	Nominal	d	D	t	Mass (g)
<b>SWAI-3-F</b>	3	3.2	7	0.5	0.12
<b>SWAI-4-F</b>	4	4.3	9	0.8	0.31
<b>SWAI-5-F</b>	5	5.3	10	1	0.45
<b>SWAI-6-F</b>	6	6.4	12.5	1.6	1.2
<b>SWAI-8-F</b>	8	8.4	17	1.6	2.3

## ● Part number specification

### SHNI-M5



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

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