


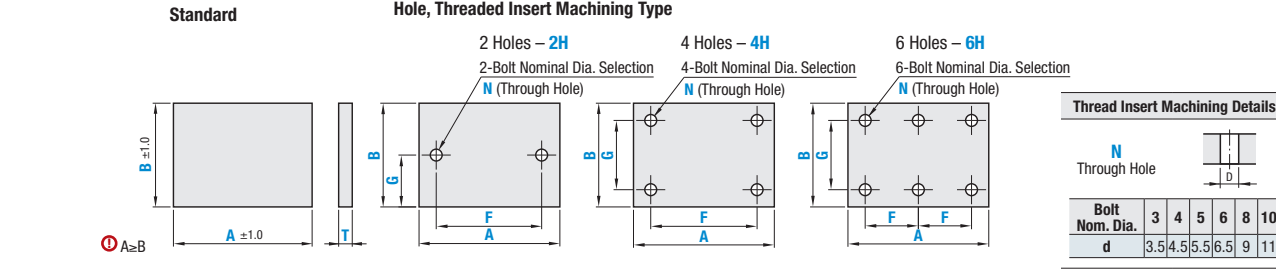
# High Temperature Insulation Sheets



RoHS10

Type	Grade	Color	Operating Ambient Temperature
HIPYKH	High Strength	Brown	Room Temperature ~180°C
HIPLKH	High Temp. Resistance	White	-80~400°C
HIPSKH	Thin / Heat Resistant	Gray	Room Temperature ~800°C

**Standard**      **Hole, Threaded Insert Machining Type**



2 Holes - 2H      4 Holes - 4H      6 Holes - 6H

2-Bolt Nominal Dia. Selection      4-Bolt Nominal Dia. Selection      6-Bolt Nominal Dia. Selection

N (Through Hole)      N (Through Hole)      N (Through Hole)

Thread Insert Machining Details	
N Through Hole	
Bolt Nom. Dia. d	3 4 5 6 8 10
	3.5 4.5 5.5 6.5 9 11

Part Number	1 mm Increment		Selection T
	A	B	
HIPYKH	20-500	20-500	1
HIPLKH			2
HIPSKH			1.5
			2

Part Number	Type	Hole Selection	1 mm Increment		T	0.5 mm Increment		Hole Machined Bolt Nominal Dia. N (Through hole)
			A	B		F	G	
HIPYKH	HIPLKH	2H	20-500	20-500	1	9-491	5-495	3
								4
HIPSKH		4H	20-500	20-500	1.5	9-245	9-491	5
								6
		6H			2			8
								10

F Dimension Range: For 2H and 4H,  $d+5 \leq F \leq A-d-5$ ; for 6H,  $d+5 \leq F \leq A/2-d/2-2.5$ .  
 G Dimension Specification Range: For 2H,  $d/2+2.5 \leq G \leq B-d/2-2.5$ ; for 4H and 6H,  $d+5 \leq G \leq B-d-5$ .

## Characteristics of HIPSKH

Overview: Inorganic mineral, Fiber, Filler and Binding Agent are main materials. Dried after paper making formation.

Item	Unit	Characteristic Values
Density	kg/m <sup>3</sup>	900
Tensile Strength	N/mm <sup>2</sup>	2.45
Compression Rate (6.86 MPa)	%	20
Recovery Rate (6.86 MPa)	%	35
Thermal Conductivity	W/(m·K) {cal/cm · sec · °C}	0.11 {0.26 x 10 <sup>-3</sup> }

- ① Handle with care as the material is fragile.
- ② Characteristics of HIPYKH and HIPLKH P.3790.
- ③ The above values are references only.

**Part Number Example**

**Standard**

Part Number - A - B - T  
 HIPYKH - 300 - 200 - 1

**Hole, Threaded Insert Machining Type**

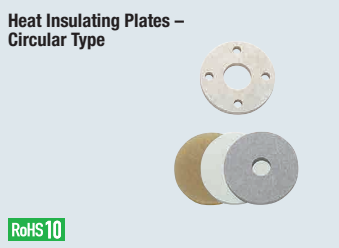
Part Number - A - B - T - F - G - Bolt Nominal Dia.  
 HIPLKH2H - 300 - 200 - 2 - F50 - G50 - N4

## Precision Standards

T Dimension Tolerance	
T1.0	T2.0
±0.15	±0.25

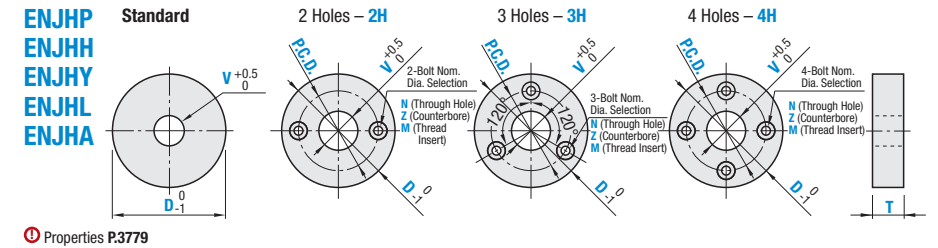
# Heat Insulating Plates

## Circular Type



RoHS10

**ENJHP Standard**      **2 Holes - 2H**      **3 Holes - 3H**      **4 Holes - 4H**



Properties P.3779

## Standard

Part Number	Type	T	T Tolerance	1 mm Increment	
				D	V
ENJHP Standard Grade		5	±0.05	50-400	0-50 V≤D-10
		10			
		15			
ENJHH Heat Resistant Grade		5	±0.05	50-400	0-50 V≤D-10
		10			
		15			
ENJHY High Strength Grade		5	±0.05	50-400	0-50 V≤D-10
		10			
		15			
ENJHL High Temperature Resistant Grade		5	±0.05	50-400	0-50 V≤D-10
		10			
		15			
ENJHA High Temperature Insulating Grade		5	±0.05	50-400	0-50 V≤D-10
		10			
		15			

**Threaded Insert Machining Details**

N Through Hole	Z Counterbore Hole	M Thread Insert

**Table 1**

Bolt Nominal Diameter d	3	4	5	6	8
d	3.5	4.5	5.5	6.5	9
L	4.5	6	7.5	9	12

Ordering Code: (Ex.) M4-L6  
 L≤T  
 ① For details of thread insert HLTS, refer to P.2461.

① When L+5<T, machined holes will be blind ones.

## Hole, Thread Insert Machining Type

Part Number	Type	Hole Selection	T	1 mm Increment			Hole Machined Bolt Nominal Diameter							
				D	V	P.C.D.	Through Hole N	Counterbore Hole Z	Thread Insert M		L			
ENJHP T≥5 ENJHH T≥5 ENJHL T≥5 ENJHA T≥10		2H 3H 4H	3	50-400	0-50 (V≤D-10)	20-390*	3					Select from Table above		
			5				3	4						
			10				4	5	6	3	4		5	6
			15				4	5	6	8	3		4	5

① For Hole Type, select N (through hole) or Z (counterbore hole), for Thread Insert Type, select M (thread insert) or L (insertion length).

\* P.C.D.  $V+5+d(d_1) \leq P.C.D. \leq D-5-d(d_1)$  (d for through holes and thread insert; d1 for counterbore and countersink)

**Standard**

Part Number Example: ENJHP5 - 300 - 50 - 1

**Hole, Threaded Insert Machining Type**

Part Number Example: ENJHP2H5 - 300 - 50 - 80 - N3  
 ENJHP2H5 - 300 - 50 - 80 - M3 - L3