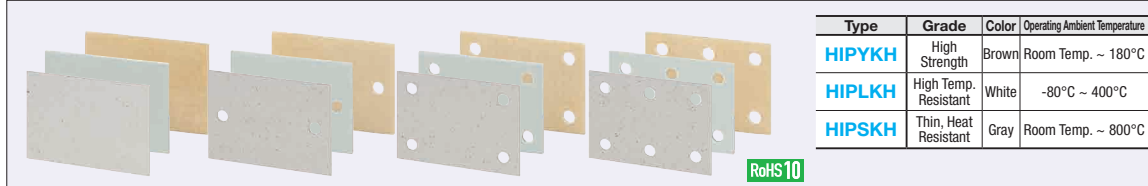


# High Temperature Insulation Sheets

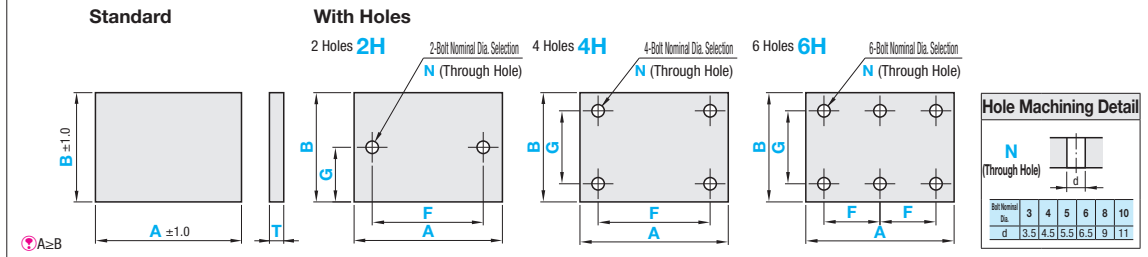
# Heat Insulating Plates

## Circular Type



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

RoHS 10



Standard			With Holes			
Part Number	1mm Increment	Selection	Type	Number of Holes	1mm Increment	Selection
HIPYKH	20-500	1	HIPYKH	2H	20-500	1
HIPLKH	20-500	2	HIPLKH	4H	20-500	1.5
HIPSKH		1.5	HIPSKH	6H		2
		2				

### Characteristics of HIPSKH

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

Item	Unit	Characteristic Value
Density	kg/m <sup>3</sup>	900
Tensile Strength	N/mm <sup>2</sup>	2.45
Compression Rate (6.86MPa)	%	20
Recovery Rate (6.86MPa)	%	35
Thermal Conductivity	W/(m·K)	0.11
	{cal/cm·sec·°C}	{0.26x10 <sup>-3</sup> }

Handle with care as the material is fragile. The above values are references only. Characteristics of HIPYKH and HIPLKH P.1675

### Standard

Part Number - A - B - T

HIPYKH - 300 - 200 - 1

### With Holes

Part Number - A - B - T - F - G - Bolt Nominal Dia.

HIPLKH2H - 300 - 200 - 2 - F50 - G50 - N4

The price of Hole Type is Standard Type Unit Price plus Hole Machining Charge.

(Ex.) Part Number - A - B - T - F - G - Bolt Nominal Dia.

HIPLKH2H - 300 - 200 - 2 - F50 - G50 - N4

(Standard Type Unit Price) + (Hole Machining Charge) = Hole Machined Type Unit Price

T	A	Unit Price HIPLKH Qty. 1 ~ 50									
		B20-50	B51-100	B101-150	B151-200	B201-250	B251-300	B301-350	B351-400	B401-450	B451-500
1	20-50	-	-	-	-	-	-	-	-	-	-
	51-100	-	-	-	-	-	-	-	-	-	-
	101-150	-	-	-	-	-	-	-	-	-	-
	151-200	-	-	-	-	-	-	-	-	-	-
	201-250	-	-	-	-	-	-	-	-	-	-
	251-300	-	-	-	-	-	-	-	-	-	-
	301-350	-	-	-	-	-	-	-	-	-	-
	351-400	-	-	-	-	-	-	-	-	-	-
	401-450	-	-	-	-	-	-	-	-	-	-
	451-500	-	-	-	-	-	-	-	-	-	-
2	20-50	-	-	-	-	-	-	-	-	-	-
	51-100	-	-	-	-	-	-	-	-	-	-
	101-150	-	-	-	-	-	-	-	-	-	-
	151-200	-	-	-	-	-	-	-	-	-	-
	201-250	-	-	-	-	-	-	-	-	-	-
	251-300	-	-	-	-	-	-	-	-	-	-
	301-350	-	-	-	-	-	-	-	-	-	-
	351-400	-	-	-	-	-	-	-	-	-	-
	401-450	-	-	-	-	-	-	-	-	-	-
	451-500	-	-	-	-	-	-	-	-	-	-

### Precision Standards

T Dimension Tolerance (HIPYKH, HIPLKH)

T 1.0 2.0

±0.15 ±0.25

(HIPSKH)

T:±0.20

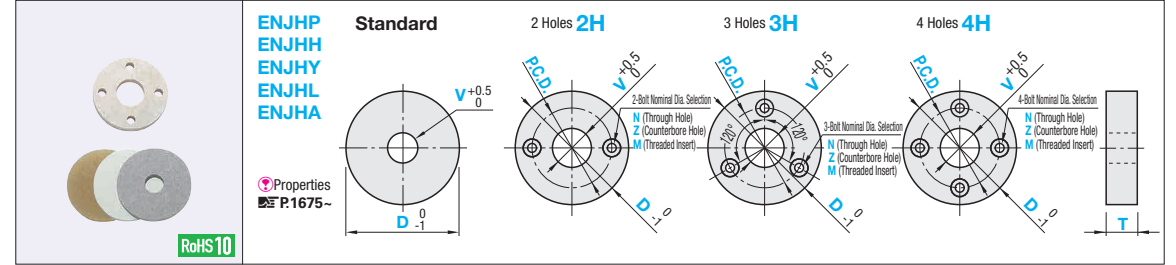
### Standard Type Unit Price (HIPYKH, HIPLKH, HIPSKH)

T	A	Unit Price HIPLKH Qty. 1 ~ 50									
		B20-50	B51-100	B101-150	B151-200	B201-250	B251-300	B301-350	B351-400	B401-450	B451-500
1	20-50	-	-	-	-	-	-	-	-	-	-
	51-100	-	-	-	-	-	-	-	-	-	-
	101-150	-	-	-	-	-	-	-	-	-	-
	151-200	-	-	-	-	-	-	-	-	-	-
	201-250	-	-	-	-	-	-	-	-	-	-
	251-300	-	-	-	-	-	-	-	-	-	-
	301-350	-	-	-	-	-	-	-	-	-	-
	351-400	-	-	-	-	-	-	-	-	-	-
	401-450	-	-	-	-	-	-	-	-	-	-
	451-500	-	-	-	-	-	-	-	-	-	-
2	20-50	-	-	-	-	-	-	-	-	-	-
	51-100	-	-	-	-	-	-	-	-	-	-
	101-150	-	-	-	-	-	-	-	-	-	-
	151-200	-	-	-	-	-	-	-	-	-	-
	201-250	-	-	-	-	-	-	-	-	-	-
	251-300	-	-	-	-	-	-	-	-	-	-
	301-350	-	-	-	-	-	-	-	-	-	-
	351-400	-	-	-	-	-	-	-	-	-	-
	401-450	-	-	-	-	-	-	-	-	-	-
	451-500	-	-	-	-	-	-	-	-	-	-

For orders larger than indicated quantity, please check with WOS.

T	A	Unit Price HIPSKH Qty. 1 ~ 20									
		B20-50	B51-100	B101-150	B151-200	B201-250	B251-300	B301-350	B351-400	B401-450	B451-500
1.5	20-50	-	-	-	-	-	-	-	-	-	-
	51-100	-	-	-	-	-	-	-	-	-	-
	101-150	-	-	-	-	-	-	-	-	-	-
	151-200	-	-	-	-	-	-	-	-	-	-
	201-250	-	-	-	-	-	-	-	-	-	-
	251-300	-	-	-	-	-	-	-	-	-	-
	301-350	-	-	-	-	-	-	-	-	-	-
	351-400	-	-	-	-	-	-	-	-	-	-
	401-450	-	-	-	-	-	-	-	-	-	-
	451-500	-	-	-	-	-	-	-	-	-	-
2	20-50	-	-	-	-	-	-	-	-	-	-
	51-100	-	-	-	-	-	-	-	-	-	-
	101-150	-	-	-	-	-	-	-	-	-	-
	151-200	-	-	-	-	-	-	-	-	-	-
	201-250	-	-	-	-	-	-	-	-	-	-
	251-300	-	-	-	-	-	-	-	-	-	-
	301-350	-	-	-	-	-	-	-	-	-	-
	351-400	-	-	-	-	-	-	-	-	-	-
	401-450	-	-	-	-	-	-	-	-	-	-
	451-500	-	-	-	-	-	-	-	-	-	-

For orders larger than indicated quantity, please check with WOS.



Standard	Part Number		1mm Increment	
	Type	T	D	V
ENJHP (Standard Grade)	5	±0.05	50~400	0~50 (V≤D-10)
	10	±0.05		
	15			
5				
ENJHH (Heat Resistant Grade)	5	±0.05		
	10			
	15			
ENJHY (High Strength Grade)	5	±0.05		
	10			
	15			
ENJHL (High Temperature Resistant Grade)	5	±0.05		
	10			
	15			
ENJHA (High Temperature Insulating Grade)	3	±0.05		
	5			
	10			

With Holes	Part Number		1mm Increment		Bolt Hole Nominal Dia. Selection							
	Type	Number of Holes	T	D	V	P.C.D.	Through Hole	Counterbore Hole	Threaded Insert			
ENJHP (T≥5)	2H	3H	10	50~400	0~50 (V≤D-10)	20~390*	3	-	-			
							4					
							5					
							10					
ENJHH (T≥5)	3H	4H	15	50~400	0~50 (V≤D-10)	20~390*	3	4	-			
							4	5				
							5	6				
							10	8				
ENJHL (T≥5)	4H		15	50~400	0~50 (V≤D-10)	20~390*	4	5	6	-		
							3	4	5		6	
							3	4	5		6	8
							3	4	5		6	8

For Hole Type, select N (through hole), Z (counterbore hole), or M (threaded insert) and L (insert length). P.C.D. = V+5+d(d1)≤P.C.D.≤D-5-d(d1) (d for through holes and thread insert; d1 for counterbore and countersink)

Standard Part Number - D - V  
ENJHP5 - 300 - 50

With Holes Part Number - D - V - P.C.D. - Bolt Nominal Dia. - L  
ENJHP2H5 - 300 - 50 - 80 - N3  
ENJHP2H5 - 300 - 50 - 80 - M3 - L3

### Hole Machining Charge

With Holes	Unit Price Bolt Nominal		
	N (Through Hole)	Z (Counterbore Hole)	M (Threaded Insert)
2H			
3H			
4H			

The price of Hole Type is Standard Type Unit Price plus Hole Machining Charge.

(Ex.) Part Number - D - V - P.C.D. - Bolt Nominal Dia. - L  
ENJHP2H10 - 350 - 50 - 200 - M5 - 7.5

(Standard Type Unit Price) + (Hole Machining Charge) = Hole Machined Type Unit Price

Part Number	Type	T	Unit Price						
			D50-100	D101-150	D151-200	D201-250	D251-300	D301-350	D351-400
ENJHP	(Standard Grade)	5							
ENJHP	(Standard Grade)	10							
ENJHP	(Standard Grade)	15							
ENJHH	(Heat Resistant Grade)	5							
ENJHH	(Heat Resistant Grade)	10							
ENJHH	(Heat Resistant Grade)	15							
ENJHY	(High Strength Grade)	5							
ENJHY	(High Strength Grade)	10							
ENJHY	(High Strength Grade)	15							
ENJHL	(High Temperature Resistant Grade)	5							
ENJHL	(High Temperature Resistant Grade)	10							
ENJHL	(High Temperature Resistant Grade)	15							
ENJHA	(High Temperature Insulating Grade)	3							
ENJHA	(High Temperature Insulating Grade)	5							
ENJHA	(High Temperature Insulating Grade)	10							