

Confidential

 **NIPPON CHEMICAL SCREW CO.,LTD.**

CHEMIS**X**
KYOUJIN

新しい選択肢 ***CHEMIS*****X**

 **日本ケミカルスクリュー株式会社**



What is KYOUJIN?①

新しい選択肢 **CHEMISX**

CHEMISX **KYOUJIN**



More than half a century of manufacturing technology and fiber-reinforced thermoplastic resin have been employed by Nippon Chemical Screw Co, KYOUJIN " was born from the know-how and technology of our mold structure to achieve high strength. KYOUJIN", a new plastic bolt that overturns the concept of our products Half a century after the birth of plastic screws, a new era is now beginning.



日本ケミカルスクリュー 株式会社

What is KYOUJIN?②

新しい選択肢 **CHEMISX**

KYOUJIN", a tough thermoplastic bolt with a tensile strength exceeding 17000N

Strength

→Highest strength among our products Tensile breaking load 17492N

Lightweight

→Specific gravity of material: KYOUJIN 1.69/Iron 7.85/Titanium 4.51

Insulation

→Excellent insulation with high electrical resistance

Corrosion resistance

→No worries about rust and corrosion

Thermal insulation

→Excellent thermal insulation with low thermal conductivity

Non-magnetic

→Not magnetized.



*Company research



日本ケミカルスクリュー株式会社

KYOUJIN/BT Hexagonal bolt

新しい選択肢 **CHEMISX**

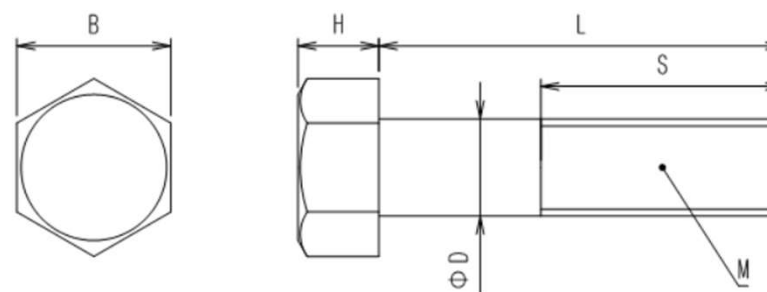
[M12]

品番	M	L	S	B	H	φD
KJPA/BT M12-30(S=20)	12	30	20	19	10	12
KJPA/BT M12-40(S=30)	12	40	30	19	10	12
KJPA/BT M12-50(S=30)	12	50	30	19	10	12
KJPA/BT M12-60(S=30)	12	60	30	19	10	12
KJPA/BT M12-70(S=30)	12	70	30	19	10	12
KJPA/BT M12-80(S=40)	12	80	40	19	10	12
KJPA/BT M12-90(S=40)	12	90	40	19	10	12
KJPA/BT M12-100(S=40)	12	100	40	19	10	12
KJPA/BT M12-110(S=40)	12	110	40	19	10	12
KJPA/BT M12-120(S=40)	12	120	40	19	10	12

[M10]

品番	M	L	S	B	H	φD
KJPA/BT M10-30(S=25)	10	30	25	17	8	10
KJPA/BT M10-40(S=30)	10	40	30	17	8	10
KJPA/BT M10-50(S=30)	10	50	30	17	8	10
KJPA/BT M10-60(S=30)	10	60	30	17	8	10
KJPA/BT M10-70(S=30)	10	70	30	17	8	10
KJPA/BT M10-80(S=30)	10	80	30	17	8	10

KJPA/BT \textcircled{M} - \textcircled{L}

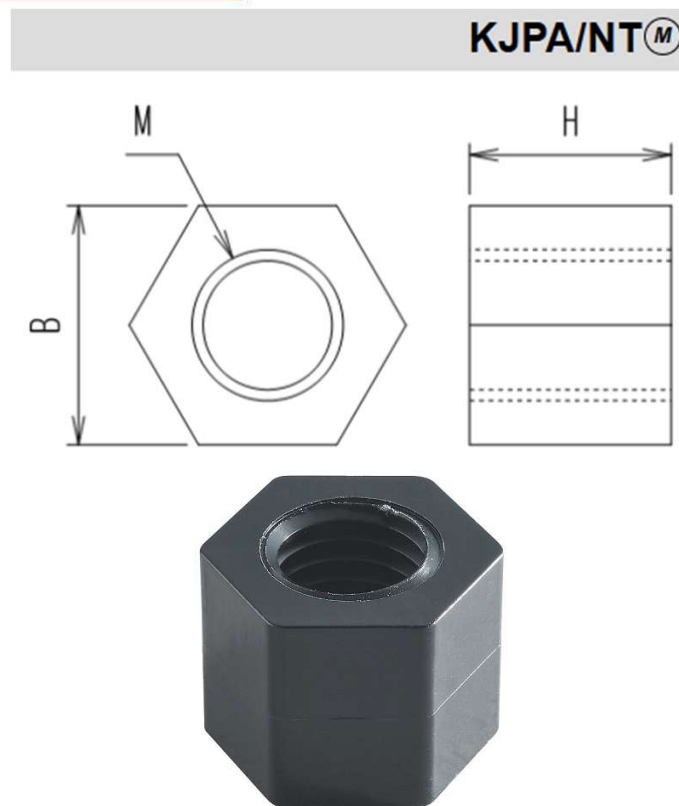


日本ケミカルスクリュー株式会社

KYOUJIN/NT Hex nut

新しい選択肢 **CHEMISX**

品番	M	B	H
KJPA/NT M12	12	19	16
KJPA/NT M10	10	17	14



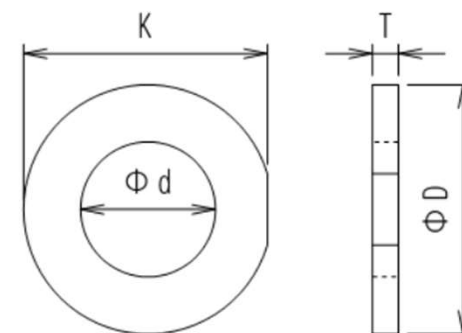
日本ケミカルスクリュー株式会社

KYOUJIN/W Washer

新しい選択肢 **CHEMISX**

KJPA/W ϕd - ϕD - t

品番	ϕd	K	ϕD	T
KJPA/W 13-24-2.5	13	23.5	24	2.5
KJPA/W 10.5-21-2.0	10.5	20.5	21	2.0



日本ケミカルスクリュー株式会社

Q&A

新しい選択肢 **CHEMISX**

What is the strength difference from metal screws?

→According to KYOUJIN's in-house data, its strength is equivalent to aluminum and about half that of steel.

****These figures are not guaranteed values, but reference values.***

How about heat resistance?

→As raw material data, the load deflection temperature is 255 ° C, the maximum service temperature is 100~120 ° C in the long term (2000 hours), and 220 ° C in the short term (a few hours to a few days).

What is the product weight?

→The specific gravity of the material is 1.69, which is equivalent to RENY in our products, 1/5th the weight of iron and 1/3rd the weight of titanium.



日本ケミカルスクリュー 株式会社

Handling Precautions

• Raw materials used are "RoHS2" compliant. 原材料は「RoHS2」対応品を使用しています。
• Black spots (sludge) may appear on the exterior. 外観に黒点（スラッジ）が発生する場合があります。
• Gate residue at the tip of the screw is less than 5% of the length (L). ネジ先端のゲート残りは長さ（L）の5%以下です。
• Since misalignment of screw pitch occurs during molding, use in combination with a nut of the same material. 成形時にねじピッチのずれが生じるため、同材質のナットと組み合わせて使用する。
• If a nut is not used, the fit with the female screw should be 20 mm or less. ナットを使用しない場合、雌ねじとのはめあいには20mm以下としてください。
• The values in the table are for reference only and are not guaranteed. 表中の数値は参考値であり、保証値ではありません。
• Use a torque screwdriver or torque wrench for tightening. Recommended tightening torque is 50% of the breaking torque value in use. 締付けにはトルクドライバーまたはトルクレンチを使用してください。
• Heat resistance and chemical resistance may vary depending on operating conditions, so be sure to test under operating conditions prior to use. 耐熱性、耐薬品性は使用条件により異なりますので、使用前に必ず使用条件でテストしてください。
• Color may discolor slightly depending on the lot and various conditions. ロットや諸条件により多少変色する場合があります。
• Stock sizes, shapes, and material manufacturers may change without notice. 在庫サイズ、形状、材料メーカー等は予告なく変更する場合があります。