



This Products/ Services catalog book features the presentation of:

- Mastercote Products
- Special Bolts & Nuts
- U-bolts Products
- Coating Services
- Our Laboratory

MASTERCOTE
Superior Fluorocarbon Coated Bolts & Nuts

MASTERCARD
Ceramic/Metallic Base PTFE Topcoat

MASTERNICOTE
Zinc Nickel Base PTFE Topcoat



“Serving The Oil & Gas, Petrochemical, Energy, Marine, Aerospace Industries And Infrastructures For Over 35 Years.”



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SBN Industries Sdn. Bhd.

Since 1979 SBN Industries Sdn. Bhd. has been providing corrosion-resistant solutions for the oil & gas, petrochemical, energy, marine, aerospace industries and infrastructures. Situated at southern Malaysia, SBN has been a reliable partner to major corporations in the region with offices in Kuala Lumpur, Terengganu, Sarawak and Sabah.



Throughout the years our success is primarily achieved through the strong corporate culture of S. B. N. - Dedicated Customer Service while providing the Best quality products & services with a spirit of Never-ending improvement. SBN focuses in 4 major divisions :

- Fasteners Division
- Bolting Solutions
- Cable Support Systems
- Cathodic Protection

The key strength of SBN is in the coordination and integration of the various divisions to provide a comprehensive range of products and services. And, over the years, we have received Product Quality and Performance Awards together with a host of international certifications, which is a testimony to the high quality standards we comply.



MS ISO 9001:2000
REG. NO. : AY 0176



CERTIFIED TO OSHAS 18007:2007
CERT. NO. : MY-SR 0538



“At SBN Quality Begins Right from The Source, The Highest Quality of Raw Materials ...”



High Quality Specialty Bolts & Nuts ▶





▲ Threading



▲ Cutting



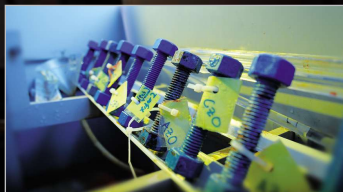
▲ Washing, Plating



▲ Coating



▲ Curing



▲ Lab Test



▲ Labelling, Packing

Since its incorporation back in the 1970s, SBN has been producing precision fasteners to cater for the market needs in the region, and that have set the pace for venturing into a wide spectrum of coating services. Today we produce one of the most corrosion-resistant fasteners in the market.

SBN produces tons of alloy steel studbolts & nuts each day including U-bolts, pipe clamps, foundation bolts and custom-designed precision fasteners. Fasteners that are made from a variety of materials, grades and coatings, using highgrade engineering steel from Europe, Finland, Spain, Korea and Japan.

Engineers and buyers in the 60's to early 80's were very selective and quality conscious and they purchased only from renowned manufacturers. However, today, many traders, stockiest and distributors are sourcing all over the world at lowest possible prices without realizing that heat treatment issue is a major problem with many low quality producers and end-users who use such products are taking a big risk.

Our petroleum studbolt materials are from Ovako Steel AyOb, Finland. We are the sole distributor for the full range covering A193 B7, B16 and A320 L7 for sizes 1" diameter and above. Smaller diameter materials are from other reputable mills, mainly in Europe, which have consistently passed our stringent in-house inspections over the years, giving the highest degree of joint integrity.

Over the years, we are equipped with the most comprehensive facilities to meet the stringent and quality demands of our customers. Our in-house capability include Precision Engineering and Specialised Coating Facilities to ensure the highest quality performance of our Bolts and Nuts. SBN is proud to be endorsed as WHITFORD Quality Approved Coater.

Fully equipped with testing facilities, SBN is accredited with SIRIM 17025 Laboratory certification.



MS ISO/IEC 17025:2005
SMM 546



MASTERCOTE®

Superior Fluorocarbon
Coated Bolts & Nuts

MASTERGARD

Ceramic/Metallic Base
PTFE Topcoat

MASTERNIZCOTE

Zinc Nickel Base
PTFE Topcoat



Our Brand of Coated Fasteners Include :

- | | | |
|---------------|--------------------|--------------------|
| MasterCote® | • Metallic | Base PTFE Top Coat |
| MasterGard | • Ceramic/Metallic | Base PTFE Top Coat |
| MasterNiZcote | • Zinc Nickel | Base PTFE Top Coat |



- ▲
1. Marking on the bolts and nuts, please check page 09
 2. Plating
 3. Colors available

MASTERCOTE® COLORS

Xylan® Xylar



Red



Yellow



Green



Blue



Black

Salt Spray Test At 9,000 hours : 1. MasterCote®
- Metallic Base PTFE Top Coat

Salt Spray Test At 5,500 hours : 2. MasterGard
- Ceramic/Metallic Base PTFE Top Coat

Salt Spray Test At 4,500 hours : 3. MasterNiZcote
- Zinc Nickel Base PTFE Top Coat

SAIT SPRAY TEST COMPARISON/ ILLUSTRATE ON RIGHT PICTURE ▶

Salt Spray Test At 1,000 hours : 4. Aluminized

5. Galvanized

6. Zinc Plated

7. Plain (Without Plating/Coating)

SBN's trademark MasterCote® fluoropolymer coating for bolts and nuts is the industry leader. It is used in off-shore and subsea installations all around the world.

MasterCote® high PTFE content combined with low-friction and self-lubricating properties made it more durable in high-corrosion environments than any other fluoropolymer coating.

MasterCote® was developed by SBN to initially service the oil and gas companies in Malaysia. We worked closely with them to derive a product that was both effective and cost efficient. Since then, we have gone through various stages of improvements, notably in the way the substrate metal is treated, in ensuring plating integrity and consistency and the application and curing processes of the base-coats and finishing top-coats. We are able to ensure that the bondings and adhesion on our MasterCote® products give the best corrosion resistant properties.

- MasterCote® coating is effective and more economical than using stainless, incoloy, titanium and other exotic materials.
- MasterCote® bolting materials last much longer than any other fluoropolymer coatings.
- MasterCote® gives the best corrosion resistance, low friction with self-lubricating, non-galling properties - thus reducing make up and break-out torques. It is excellent for offshore and subsea installations.
- MasterCote® resists most acids and is unaffected even when exposed to hydrogen sulphide at 121°C at 2,000psi.

We continually improve our MasterCote® coating processes, from material selection to degreasing, pickling, rinsing, controlling thickness and consistency of cadmium plating, phosphate and finishing coating layers.

- MasterCote® CPFC system (Cadmium Base) has been salt-spray tested to 9,000 hours without a spot of rust. That is one year under extreme laboratory conditions.
- MasterCote® ZPFC system (Zinc Plated Base) has been salt-spray tested to 4,000 hours. Results were 20% rusty and 50% stained. Both nuts were functionable.
- MasterCote® FC system (Phosphate Base) - the most economical in our series of coated bolts and nuts, sustains about 3,500 hours under the same salt-spray tests.

SALT SPRAY TEST COMPARISON



MasterGard An Environmentally Friendly Option . . .

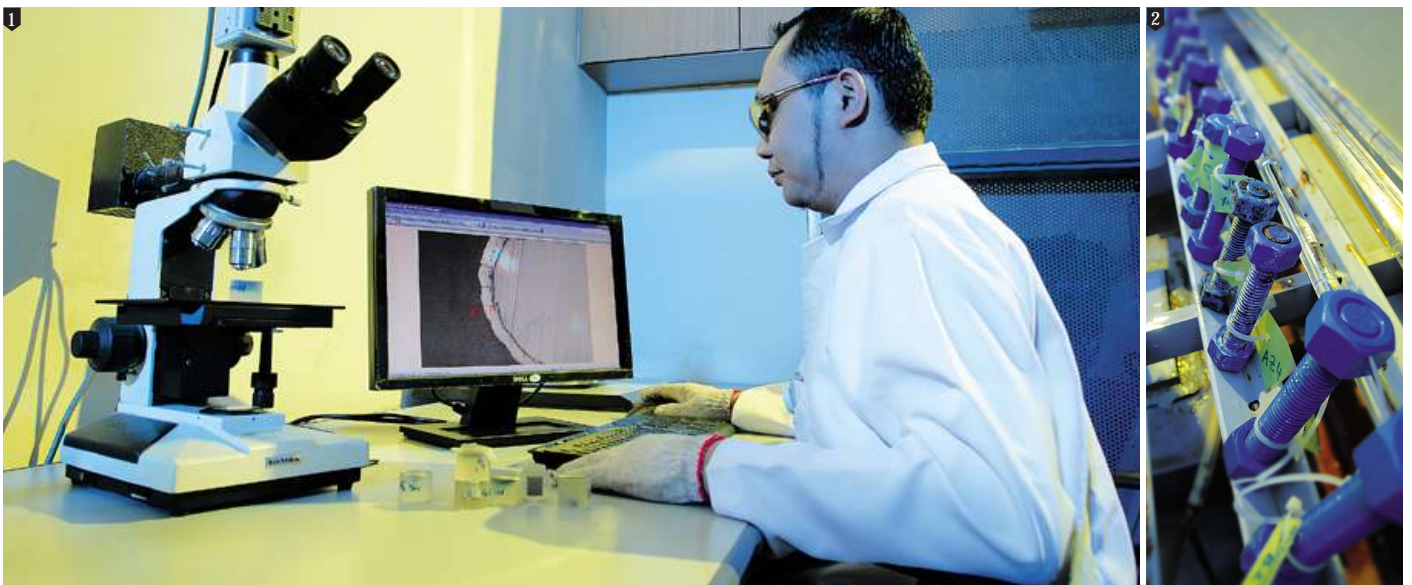
MasterGard is our proprietary name for ceramic base coating with Xylan® PTFE top coat finish. It is a good alternative to replace cadmium plated base coating in projects which require environmental friendly specifications. It has been tested serviceable at 4,500 hours. MasterGard is recommended for chemical, corrosion and abrasion resistant applications in aerospace and marine industry components, automotive engine and exhaust parts.



Xylan®

Xylar

In-house Testing



Inspection and Testing Procedures In All Production Units

- QA/QC personnel release materials to production after chemical, mechanical & dimensional checks.
- Production shop-floors practise total quality control policy in every section of work.
- We perform microscopic tests to confirm coating thicknesses on the threads of the bolts; no other coaters practise this method of testing.
- Every batch of MasterCote® products are checked/ tested for curing, adhesion & hardness.
- We are ISO 9001 accredited since 1993.



Only the BEST QUALITY

We do not believe in furnishing low quality products in order to meet the lowest price in the market. Instead we assure you that our products will outlast the rest in the market and that means savings in long term. Continuous research and development is part of our corporate culture.



- 1. Microscopic Analyser • 2. Bolts & Nuts in the Salt-spray Test • 3. Salt-spray Test Booth • 4. Spectrometer
- 5. CMM Co-ordinate Measuring Machine • 6. Charpy Test • 7. Tensile & Yield Test • 8. Profile Projector
- 9. Hardness Test • 10. Positive Material Identification



- Our comprehensive lab facilities include Electro Capacity Test machine for sea-water testing at our DIMET division.
- The quality of testing is assured with our rigorous in-house QA programmes which ensures traceability and conformity to industry specs and standards.
- We have expert staff who can provide materials testing services and solutions with test results.



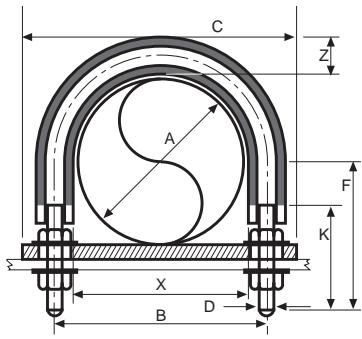


■ SPECIAL FASTENERS

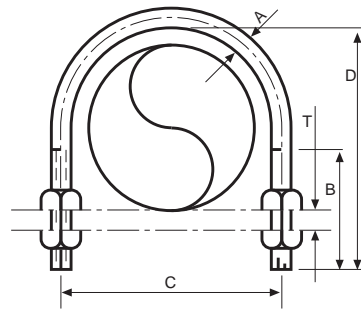
- CNC Machining
- Thread Rolling
- Exotic Material Stock : Inconel 718, S32750/32760, A630, E4340
- Specific Heat Treatment
- Special Coating Requirement
- Unique Marking, Traceability and Testing Requirement

■ OTHER PRODUCTS WE MANUFACTURE

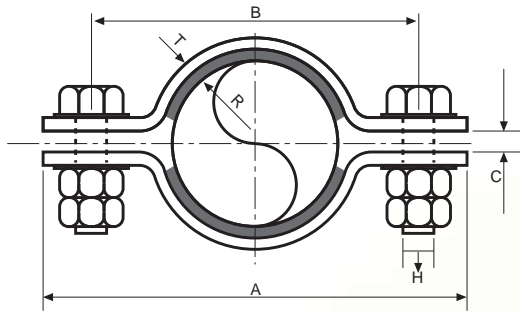
- Anchor / Foundation Bolts to customer design and specs
- U-Bolts, Pipe Clamps to standard Grinnel Fig 137 and customer specs
- BS 3692 Grade 8.8 High Tensile Bolts & Nuts
- 12 Point Screw
- Grade 12.9 Socket Cap Screw
- Socket Set Screw Dog-Point



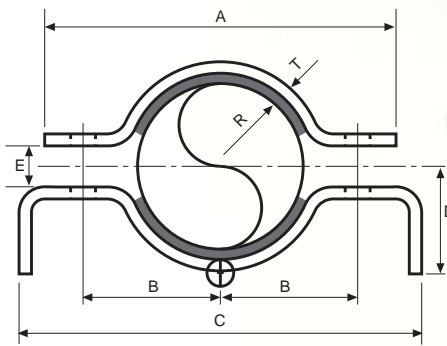
▲ With Neoprene Sleeve & Pad



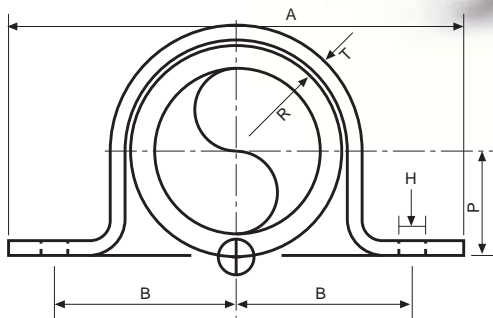
▲ Fluorocarbon Coated or Galvanised



▲ Fluorocarbon Coated or Galvanised with Neoprene Isolating Pad



▲ Neoprene Sleeve & Pad



▲ Fluorocarbon Coated or Galvanised

There are many choices available



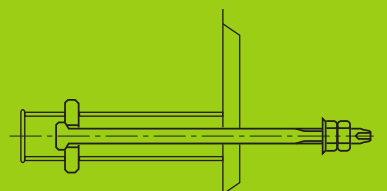
• For more details, please refer to our sales personnel.



▲ J-type Foundation Bolt Hot-dip Galvanised



▲ I-type Foundation Bolt Hot-dip Galvanised



▲ Heavy Foundation Bolts Hot-dip Galvanised

PETROLEUM STUDBOILTS & NUTS Grade. Stocks come with matching Nuts.

Grade :	Diameter :	Grade :	Diameter :
• ASTM A193 B7, B7M	3/8" ~ 4" M12 ~ M52	• ASTM A193/ ASTM A320 B8M (Class II)	1/2" ~ 4"
• ASTM A193 B16	1/2" ~ 4"	• UNS C63000	1/2" ~ 1 1/2"
• ASTM A320 L7, L7M	1/2" ~ 4"	• A453 Grade 660	1/2" ~ 2 1/2"
• ASTM A193/ ASTM A320 B8 (Class II)	1/2" ~ 4"	• UNS 32750 / UNS 32760 Super Duplex	1/2" ~ 2 1/4"

MARKING OF BOILTS & NUTS



- Studbolt : One end of the studbolt is marked with the relevant material grade symbol.
- Nut : Nut is marked with the relevant material grade symbol : 2H, 2HM, G4, G7, 7M, 8, 8M, 8MA, 8C.
- In-House Furnace : B7M/2HM and L7M/Gr 7M are produced in-house (tested & certified).
[These are then oiled, grit blasted, plated or MasterCote® finished.]
- Special Materials available on order : B8T, Titanium, Duplexes, Monel 400, K500, Hastelloy, Incoloy, Inconel, Nimonic, etc.
- Bronzes : Prospor Bronze, Brass, Aluminium, Manganese Bronze, Silicon Bronze available on request.

MECHANICAL PROPERTIES

Material	Size	Tensile Strength		Yield Strength		Elongation Min, %	Reduction of Area Min, %	Hardness	
		Min (Ksi)	(MPa)	Min (Ksi)	(MPa)			Min HRC	Max HRC
B7	2 1/2 and Under	125	(860MPa)	105	(720MPa)	16	50		35 (321HB)
	Over 2 1/2 to 4	115	(795MPa)	95	(655MPa)	16	50		35 (321HB)
	Over 4 to 7	100	(690MPa)	75	(515MPa)	16	50		35 (321HB)
B7M	4 and Under	100	(690MPa)	80	(550MPa)	18	50	14	22 (235HB)
L7	2 1/2 and Under	125	(860MPa)	105	(725MPa)	16	50		35 (321HB)
L7M	2 1/2 and Under	100	(690MPa)	80	(550MPa)	18	50	14	22 (235HB)
B16	2 1/2 and Under	125	(860MPa)	105	(725MPa)	18	50	25 (253HB)	35 (321HB)
	Over 2 1/2 to 4	110	(760MPa)	95	(655MPa)	17	45		35 (321HB)
	Over 4 to 8	100	(690MPa)	85	(585MPa)	16	45		35 (321HB)
B8 CL 2	3/4 and Under	125	(860MPa)	100	(690MPa)	12	35		35 (321HB)
	over 3/4 to 1, incl.	115	(795MPa)	80	(550MPa)	15	35		35 (321HB)
	over 1 to 1 1/4, incl.	105	(725MPa)	65	(450MPa)	20	35		35 (321HB)
	over 1 1/4 to 1 1/2, incl.	100	(690MPa)	50	(345MPa)	28	45		35 (321HB)
	upper diameters	100	(690MPa)	50	(345MPa)	28	45		35 (321HB)
B8M CL 2	3/4 and Under	110	(760MPa)	95	(655MPa)	15	45		35 (321HB)
	over 3/4 to 1, incl.	100	(690MPa)	80	(550MPa)	20	45		35 (321HB)
	over 1 to 1 1/4, incl.	95	(655MPa)	65	(450MPa)	25	45		35 (321HB)
	over 1 1/4 to 1 1/2, incl.	90	(620MPa)	50	(345MPa)	30	45		35 (321HB)
	upper diameters	90	(620MPa)	50	(345MPa)	30	45		35 (321HB)
A453 Gr.660	All Sizes	130	(895MPa)	85	(585MPa)	15	18	24 (248HB)	37 (341HB)
A, B & C, D	All Sizes	130	(895MPa)	105	(725MPa)	15	18	24 (248HB)	35 (321HB)
UNS 32550	All Sizes	110	(760MPa)	80	(550MPa)	15			31 (297HB)
UNS 32750	2 in. and under	116	(800MPa)	80	(550MPa)	15			33 (310HB)
	Over 2 in.	110	(760MPa)	75	(515MPa)	15			33 (310HB)
UNS 32760	All Sizes	109	(750MPa)	80	(550MPa)	25			32 (300HB)
UNS C63000	1/2 to 1, incl.	100	(690MPa)	50	(345MPa)	5			
	Over 1 to 2, incl.	90	(620MPa)	45	(310MPa)	6			
	Over 2 to 4, incl.	85	(587MPa)	42.5	(293MPa)	10			
	Over 4	80	(551MPa)	40	(275MPa)	12			
MONEL K500	All Sizes	140	(965MPa)	100	(690MPa)	20		27 (265HB)	

- We also provide : Bolt Tensioning Services, Rental of Tensioning Equipments & Torque Wrenches.



Bolting Solutions

Sales and Rental of Hydraulic
Bolting Equipments & Tools

▲ Please check our products/services catalog book
of "Bolting Solution"



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Location & GPS Co-ordinate



Our Customers

