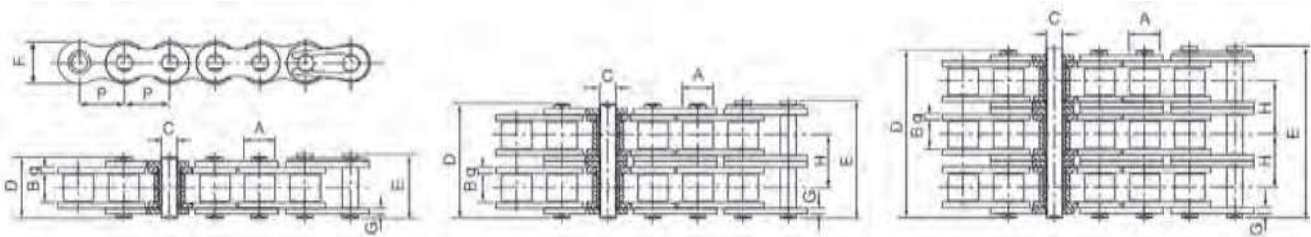


BS Neo Series Roller Chain



ISO Chain No.	Pitch	Roller diameter	Width between inner plates		Pin diameter		Pin length		Inner plate height	Plate thickness	Transverse pitch	Minimum tensile strength	Average tensile strength	Weight per meter
	P	A	B	C	D	E	F	g/G	H					
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
SIMPLEX														
05B-1	8.000	5.00	3.00	2.31	8.20	8.90	7.10	0.8	-	5.00	5.90	0.20		
06B-1	9.525	6.35	5.72	3.28	13.15	14.10	8.20	1.30	-	9.00	10.40	0.41		
08B-1	12.700	8.51	7.75	4.45	16.70	18.20	11.80	1.60	-	18.00	19.40	0.69		
10B-1	15.875	10.16	9.65	5.08	19.50	20.90	14.70	1.70	-	22.40	27.50	0.93		
12B-1	19.050	12.07	11.68	5.72	22.50	24.20	16.00	1.85	-	29.00	32.20	1.15		
16B-1	25.400	15.88	17.02	8.28	36.10	37.40	21.00	4.15/3.1	-	60.00	72.80	2.71		
20B-1	31.750	19.05	19.56	10.19	41.30	45.00	26.40	4.5/3.5	-	95.00	106.70	3.70		
24B-1	38.100	25.40	25.40	14.63	53.40	57.80	33.20	6.0/4.8	-	160.00	178.00	7.10		
28B-1	44.450	27.94	30.99	15.90	65.10	69.50	36.70	7.5/6.0	-	200.00	222.00	8.50		
32B-1	50.800	29.21	30.99	17.81	66.00	71.00	42.00	7.0/6.0	-	250.00	277.50	10.25		
DUPLEX														
06B-2	9.525	6.35	5.72	3.28	23.40	24.40	8.20	1.30	10.24	16.90	18.70	0.77		
08B-2	12.700	8.51	7.75	4.45	31.20	32.20	11.80	1.60	13.92	32.00	38.70	1.34		
10B-2	15.875	10.16	9.65	5.08	36.10	37.50	14.70	1.70	16.59	44.50	56.20	1.84		
12B-2	19.050	12.07	11.68	5.72	42.00	43.60	16.00	1.85	19.46	57.80	66.10	2.31		
16B-2	25.400	15.88	17.02	8.28	68.00	69.30	21.00	4.15/3.1	31.88	106.00	133.00	5.42		
20B-2	31.750	19.05	19.56	10.19	77.80	81.50	26.40	4.5/3.5	36.45	170.00	211.20	7.20		
24B-2	38.100	25.40	25.40	14.63	101.70	106.20	33.20	6.0/4.8	48.36	280.00	319.20	13.40		
28B-2	44.450	27.94	30.99	15.90	124.60	129.10	36.70	7.5/6.0	59.56	360.00	406.80	16.60		
TRIPLEX														
08B-3	12.700	8.51	7.75	4.45	45.10	46.10	11.80	1.60	13.92	47.50	57.80	2.03		
10B-3	15.875	10.16	9.65	5.08	53.8	55.15	14.70	1.70	16.59	66.80	84.50	2.71		
12B-3	19.050	12.07	11.68	5.72	61.50	63.10	16.00	1.85	19.46	86.70	101.80	3.46		
16B-3	25.400	15.88	17.02	8.28	101.9	105.25	21.00	4.15/3.1	31.88	126.80	203.70	7.75		

Straight Side Plate Chain

Chain	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Minimum tensile strength	Average tensile strength	Weight per meter
	P	A	B	C	D	E	F	g/G	kN	kN	kg/m
12B-1GL	19.050	12.07	11.68	5.72	22.50	24.20	16.00	1.85	29.00	32.2	1.32



Feature

Excellent corrosion resistance without plating same strength and working load values as standard chain No hydrogen embrittlement by surface treatment.

Results of corrosion resistant tests

Salt spray test

CHAINS	Hour for Rust developed(hours)
Special surface treated	1000 No rust
Glossy chromating	72~96
Colored chromating	120~240
Molten zinc plating	120~240

Salt spray test

CHAINS	Hour for Rust developed(hours)
Nickel plated	48
Special surface treated	600~840
Made of SUS304 stainless steel	above 840 No rust

Applications

- Outdoor service
- Sea water applications
- Stacking crane, Car parking

Applicable Chains

- #40~#240
- Attachment chain is available.

Purpose of Special surface treatment

- Linkplate : for anticorrosion
- Other parts : for anticorrosion and to reduce friction

Caution

For the food products industry where the chain may be exposed to direct food contact, stainless steel chain is recommended.

Applicable Chains

- SY40AP~SY240AP
- Attachment chain is available.
- For identification, a suffix is added to the chain numbers.

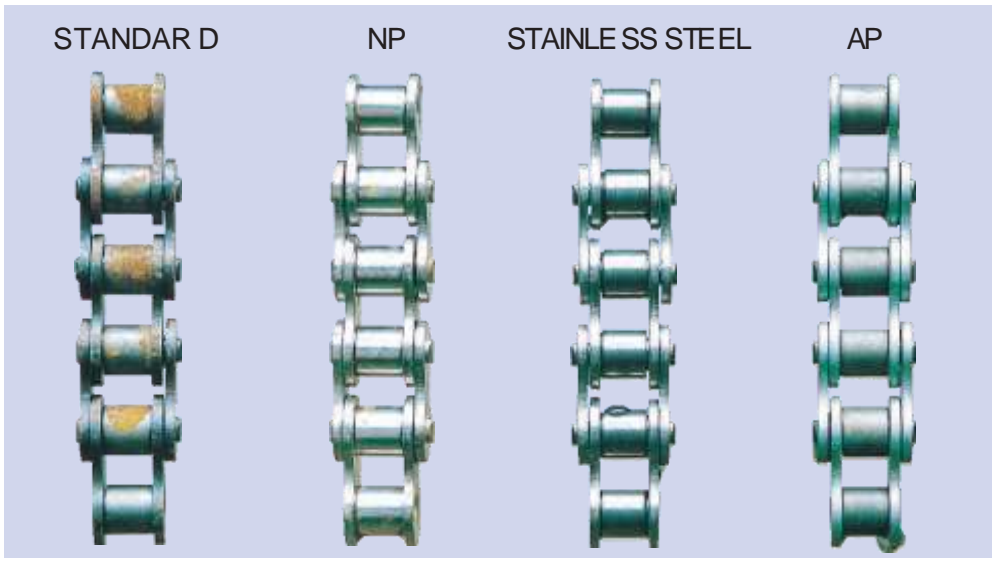
SY AQUA CHAINS

08B-1	40-1
08B-2	40-2
10B-1	50-1
10B-2	50-2
12B-1	60-1
12B-2	60-2
16B-1	80-1
16B-2	100-1
20B-1	C2060H

THE ULTIMATE ROLLER CHAIN **LONG LIFE SERIES**

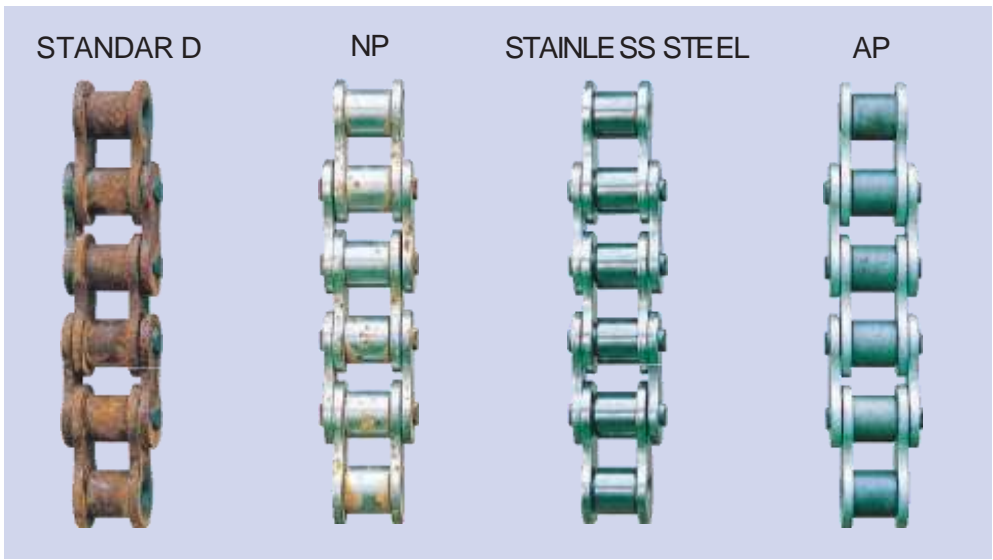
**New AQUA-series
ROLLER CHAIN**

BS STANDARD ROLLER CHAINS
ANSI STANDARD ROLLER CHAINS
HEAVY-SERIES ROLLER CHAINS
S-SERIES ROLLER CHAINS
SUPER ROLLER CHAINS
OIL-FIELD CHAINS
ROLLERLESS CHAINS
STRAIGHT SIDEBAR CHAINS
DOUBLE PITCH ROLLER CHAINS etc.



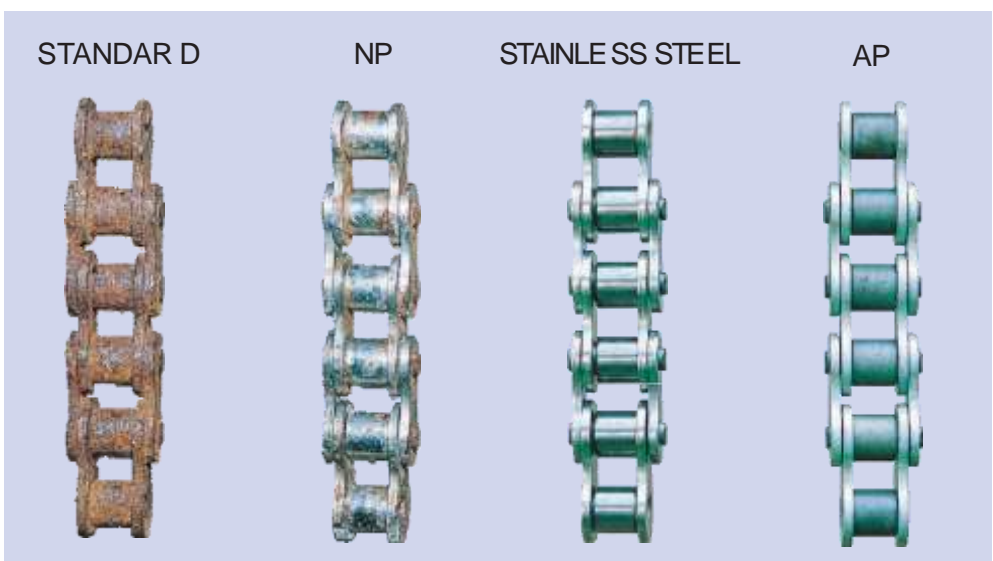
Open air,
splashed water
morning&evening

3days after



Open air,
splashed water
morning&evening

15days after



Indoors,
splashed
5%salty water
morning&evening

15days after



'NEO' Roller Chain

Premium SBR®



*Amazingly High
Corrosion Resistance*



What is NEO?

"NEO" C-Z coating is a combination of C-COAT and Z-COAT that improves their already high corrosion resistance properties.

C-COAT is a non-aqueous chromating method, the porous properties of Z-COAT are utilized are to form a film that demonstrates excellent corrosion resistance characteristics.

- NEW C-Z exhibits superior corrosion resistance properties, particularly in high temperatures, compared to existing electro zinc plating
- Even more outstanding than existing phosphating etc. As a corrosion resistant surface treatment
- No hydrogen embrittlement
- No drop in strength caused through high temperature treatments
- Has all the other excellent properties of C-COAT and Z-COAT

Applications

- Washdown areas, abattoirs, dairies, etc
- High humidity environments
- Agricultural machinery
- Oven conveyors or Drives For Industry Acidic and salty environments



SY NEO CHAINS

08B-1	12B-2	40-1	60-2	C2040
08B-2	12B-3	40-2	80-1	C2050
10B-1	16B-1	50-1	100-1	C2060H
10B-2	16B-2	50-2	60H-1	C2062H
12B-1	20B-1	60-1	80E-1x24 ft.	C2080H



'NEO'
Roller Chain

Premium
SBR®

"NEO' CZ COAT's Film Structure and Rust Prevention Mechanism

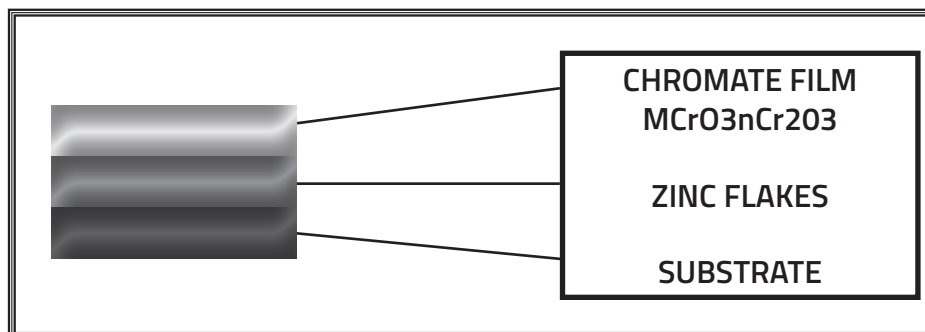
The Z-COAT film is formed by projecting Z-IRON onto the surface of the material to transfer a zinc layer. The transferred zinc is laminated and bonded in a thin layer onto the treated surface. The layer makes a metal to metal contact exhibiting good current carrying properties among the zinc flakes, and between the zinc flakes and substrate, and thus the galvanic protective current of the zinc flows for the correct amount.

C-COAT film is formed by treating with cool chrom to partially reduce chromic acid on the treated surface, and by forming an amorphous polymer with composition of $mCrO_3nCr_2O_3$, namely a chromate film.

'NEO' is a combination of both C-COAT and Z-COAT that forms a chromate film on the surface of the laminated zinc flakes and in voids. Coll chron demonstrates extremely low surface tension due to it being a non-aqueous solution, and penetrates into fine gaps, and passivates its surface.

The corrosion protection mechanism of 'NEO' has the compounded result of the following three factors:

- Galvanic protection of the zinc properly controlled by chromic acid
- Passivation of the substrate by the chromic acid
- The barrier effect of the zinc flakes



Through the combined use of C-COAT & Z-COAT, 'NEO' Chain offers an amazingly high degree of corrosion resistance.