SN Treatment Chain (SN)



Stainless steel chain with wear resistance performance as high as Carbon steel chain

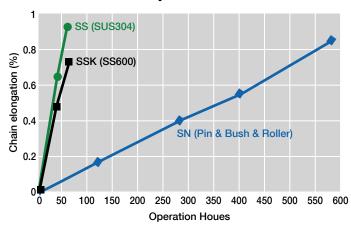
Features

- SN chain has the same strength as that of regular carbon steel chain thanks to the heat treatment over 13Cr stainless steel (SUS400 series).
- SN also provides unique surface treatment, which can be expected to have the same corrosion resistant performance as SUS600.
- SN treatment forms hardening layer, resulting in better wear resistance.

Recommended uses

- All applications where stainless steel chains are currently used.
- All applications where having corrosion issues with carbon steel and coating chains.
- Better allowable load & wear resistance are required compared to common stainless steel (SUS304) chain.

Wear resistance performance



SN Roller Chain Line-up

	Pin	Bushing	Roller	Plate
DID 40	0	0	0	SUS304
DID 50	0	0	0	SUS304
DID 60	0	0	0	SUS304
DID 80	0	0	0	SUS304

- SN Chain comes with plates in 18Cr SUS304 Stainless Steel as standard. (No SN treatment available for plate right now)
- · Can be combined with other coating such as Hi-Guard
- Consult with factory for other sizes and attachment















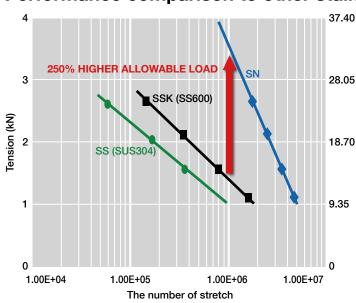






Chain No.	Average ten	sile strength	Max allow	vable load	May allowable Tamp		
	kN	kgf	kN	kgf	Max allowable Temp.		
DID 40 SN	13.3	1,350	1.1	110			
DID 50 SN	20.9	2,120	1.73	170	400℃		
DID 60 SN	30	3,050	2.58	260	(752°F)		
DID 80 SN	53.4	5,420	4.43	450			

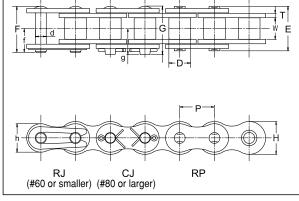
Performance comparison to other stainless Steel Chain



	SUS304 series (SS)	SUS600 series (SSK)	SN		
Material	18Cr Stainless Steel	17Cr Stainless Steel	13Cr Stainless Steel		
iviateriai	No Heat Treatment	Heat Treatment	Special Heat Treatment		
Tensile strength	100%	100%	100%		
Max. allowable Load	100%	150%	250% (Est.)		
Corrosion resistance	0	0	0		
Wear resistance	Δ	0	0		
Cost	0	0	0		

CASS Testing Results (after 168 hours) SN treatment was provided over pin, bushing and roller.

Dimensional Drawing



All plates were 18Cr SUS304.
SUS304 series (SS)
MANUAL
SS600 series (SSK)
SN
- SN

Dimensions

Unit (mm)

Chain No.	Pitch	Roller link width	Bush Dia.		Pin							Plate		
	P	W	D	d	E	F	G	L	f	g	T	Н	h	(kg/m)
DID 40 SN	12.70	7.95	7.92	3.97	16.5	17.6	18.1	19.1	9.5	10.1	1.50	11. <i>7</i>	10.1	0.63
DID 50 SN	15.875	9.53	10.16	5.09	20.3	21.9	22.1	23.2	11.6	12.1	2.00	14.6	12.6	1.06
DID 60 SN	19.05	12.70	11.91	5.96	25.4	26.9	27.9	29.8	14.3	15.1	2.40	17.5	15.0	1.53
DID 80 SN	25.40	15.88	15.88	7.94	32.6		35.4	37.1		19.0	3.20	23.0	19. <i>7</i>	2.55