

New Revolution in Stainless Chain!

Made of NSSC550 by Nippon Steel Stainless Steel Corporation

For details, please visit ►



SSP Chain High Performance Stainless Chain

The use of special parts (made of NSSC550) with the corrosion resistance equivalent to that of SUS304 leads to higher performance, achieving wear life approx. 5 times longer than and maximum allowable tension approx. 3 times higher than stainless steel (SS) (reference values)

■ Operating temperature range: -20°C–400°C

■ Salt spray test: A spray test to evaluate corrosion resistance, where sodium chloride solution is sprayed to a sample to test the acceleration of corrosion.

[Images of salt spray test samples after 700 hours]



Performance comparison

Material	KCM stainless chain SUS304	KCM SSP chain NSSC550	KCM AS chain (precipitation hardened)
Maximum allowable tension (Assuming SUS304 to be 100%)	100%	300% (Reference value)	150%
Corrosion resistance	Very Good	Good	Fair
Wear resistance	Fair	Excellent	Good

Stainless chains are not lubricated before shipment. Please make sure to lubricate them before you use them in environments other than underwater or places where chains are exposed to water. If used unlubricated, the chains may experience premature bending failure.

Pitting potential

(for SUS304 plates, as well as NSSC550 pins, bushes, and rollers)
(Testing condition: Using 3.5% NaCl solution, with argon degassed, at 30°C)

	Pit initiation potential (mV vs SCE)					
	-100	0	+100	+200	+300	+400
SUS304	○					
NSSC550	○					
SUS410	○					

Excerpt from a material for NSSC550 supplied by Nippon Steel Stainless Steel Corporation

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Made of NSSC550

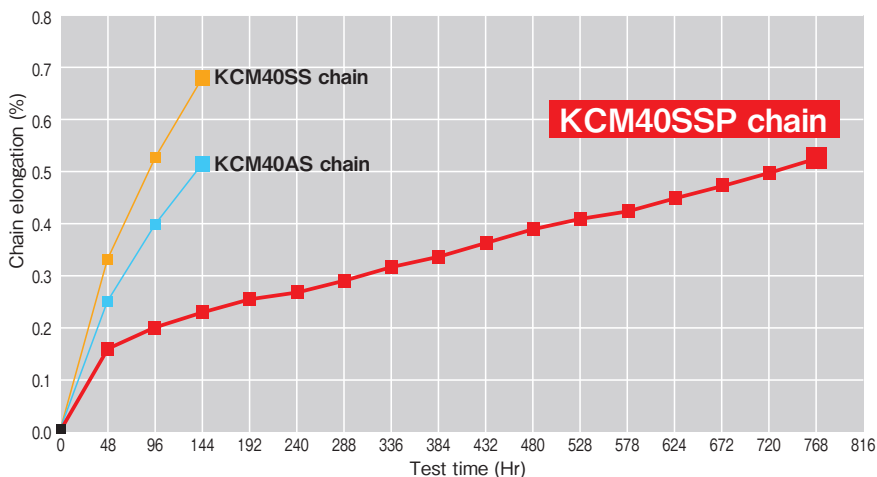
Major benefits are expected for both replacement and new design!!

For customers considering replacement

Wear life approx.
5 times longer than
stainless steel

**Reduced production
loss due to down time!**

Wear elongation test result (unlubricated)



* SS, AS, and SSP were all tested under the same condition.
Condition: load at 440N (maximum allowable tension for 40SS)

For customers considering new designs

Maximum allowable tension
3 times higher than stainless
steel (reference value)

**Possible to reduce stainless
chain size by two or more counts!**
(Please consult with us when you wish to reduce the
size by three or more counts)

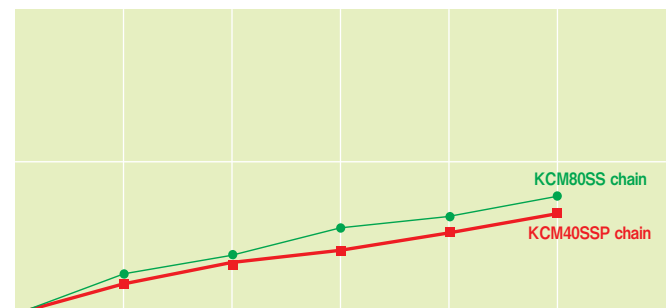
Allowable tension test result

● Comparison between 40SSP and 60SS (unlubricated)



Condition: load at 1030N (maximum allowable tension for 60SS)

● Comparison between 40SSP and 80SS (lubricated)



Condition: load at 1770N (maximum allowable tension for 80SS)

Features

- 1 Martensitic stainless steel NSSC550 are used where wear occurs at pins, bushes (solid bushes), and rollers (SUS304 for plates).
- 2 Pins, bushes, and rollers are heat-treated to achieve hardness equivalent to iron. A salt spray test proves it retains corrosion resistance similar to SUS304. The chain is magnetized.
- 3 Compatible with 40, 50, 60, 80, C2040, C2050, C2060H, and C2080H!
SUS304 for double-pitch R rollers.
- 4 Being the same measurement as existing stainless chains, it is compatible with various attachments!

Manufactured by:



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For SSP chain, please see ▶

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