

NASTM

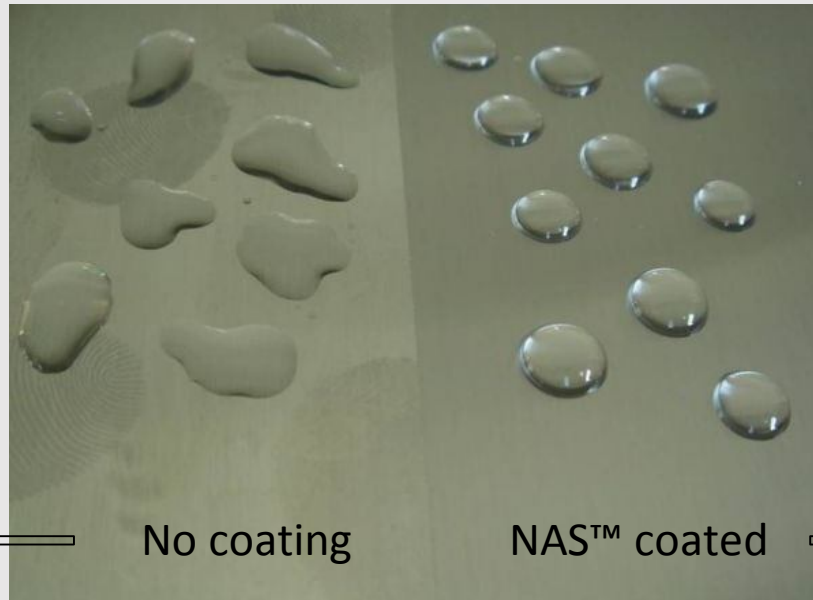
Nano Anti-fingerprint Surface Stainless Steel sheets

It has been long recognized, that **Brushed** finishes Stainless Steel sheets are hard to maintain clean. Coarse polished finishes, with Transverse Ra values > 1 micron, will exhibit deep grooves where chloride ions can accumulate and destroy the passive film, thereby initiating corrosion attack. Moreover the germs and bacteria are staggered in the roughness cavities.

We are pleased to present the ultimate solution - NASTM coated Stainless steel sheets.



No coating

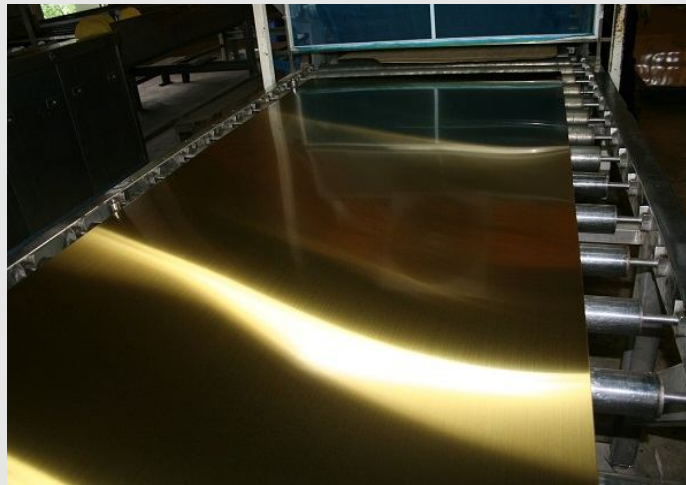


NASTM coated



Advantages

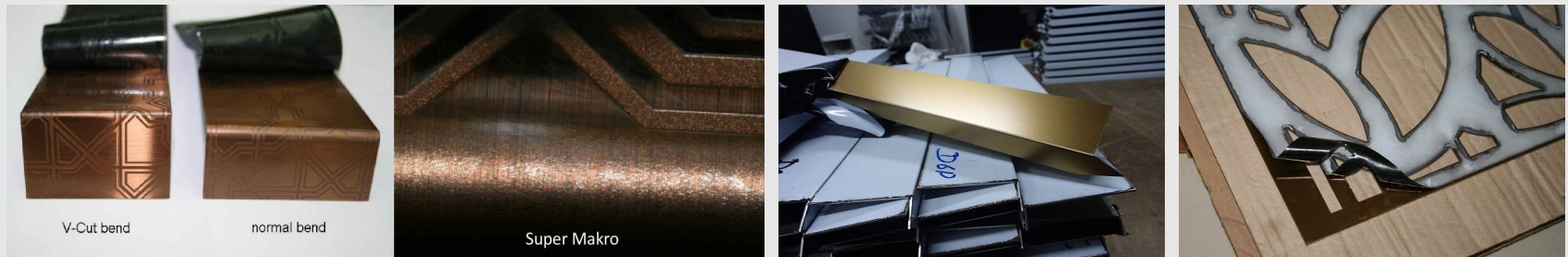
1) Wide choice of finishes and colors – it can be applied on any non-reflective finish: Satin / Hairline / Bead Blast / Vibration, etc., including Etched finishes and Ti(PVD) coated.



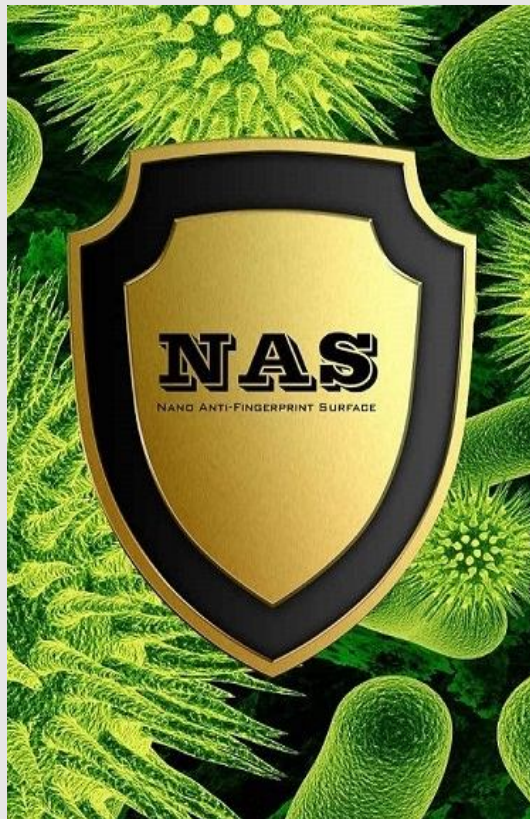
2) Maintenance Free, Green product – just a soft fabric will clean the fingerprints easily. NAS™ coating itself is an inert film, free from contaminating substances according to RoHS Directive 2002/95/EC. Moreover, it has Anti-Microbial properties!



3) Formability - NAS™ sheets can be easily fabricated: cut, laser cut and bent without chipping off on the edge.



4) Anti-Microbial technology is incorporated in our NAS™ coating during production process, and it provides continuous, built-in, anti-microbial protection for the lifetime of the product.



Test Report



Aspect Quality GmbH, 72895 Lichtenstein

Report No. 172622-1

Client HWA LIN STAINLESS STEEL INDUSTRY CO., LTD; Bangkok	Order No. Customer in written form 03.07.2017
Subject No., Subject Customer NAS™ (Anti-fingerprint) coating on stainless steel	
Test Date 19.07.2017 to 21.07.2017	Test description and duration Determination of antibacterial activity
Test Specification JIS Z 2801 (2000*), resp. to ISO 22196 (2011/08)	
Test Strains Staphylococcus aureus (MRSA) ATCC 33592, Escherichia coli ATCC 8739	

1. Brief result

There is a significant antibacterial activity with the test of Staphylococcus aureus (MRSA) ATCC 33592 and the test strain of Escherichia coli ATCC 8739 under given test conditions for the tested samples, calculated with the control material.

2. Result

Concentration of inoculum: Staphylococcus aureus MRSA ($1,62 \times 10^5$ cfu/ml); Escherichia coli ($2,58 \times 10^5$ cfu/ml)

SAMPLE	TEST ORGANISM	CONTACT TIME		REDUCTION (INITIAL)	
		0 hours	24 hours	LOG ₁₀	%
NAS™ coating stainless steel	E. coli	3,24E +04	1,30E +03	1,4	95,99
NAS™ coating stainless steel	MRSA	2,58E + 05	5,41	4,7	99,99

The test results only refer to the above mentioned subjects. It's not allowed to copy this test report in extract without permission of Aspect Quality GmbH.

Conducted by		Released by	
Name	Date	Signature	Signature
Jessica Hanisch	22.08.2017		

