

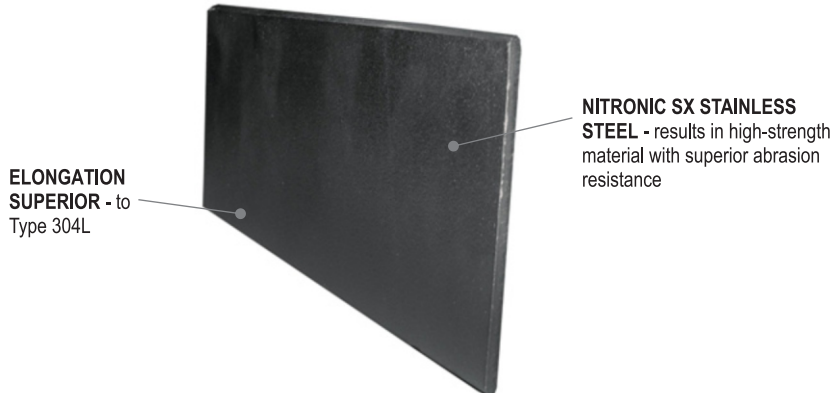
# NITRONIC SX™

## Stainless Steel Wear Plate

**ASGCO®**

Complete Conveyor Solutions

**Nitronic SX™** Stainless Steel is a nitrogen-strengthened stainless steel developed for applications requiring good level corrosion resistance and durability. The high work-hardening rate Nitronic Sx™ stainless steel results in a high-strength material with superior abrasion resistance and elongation superior to Type 304L.



- Excellent Wet and Dry Abrasion Resistance
- Work Hardened Properties
- Good Resistance to Corrosion

### Abrasion / Wear Resistance

The below tables and figures demonstrate the outstanding corrosive wear resistance of Nitronic SX™ under different sliding conditions.

Metal to Metal Wear*				
Alloy	Hardness Rockwell	Wear, mg/1000 cycles**		
		25 RPM	105 RPM	415 RPM
Nitronic SX	B93	1.9	3.3	2.2
304	B85	13.9	12.8	7.6

\* Self-mated crossed cylinders, 16lbs (71 N), 10,000 or 40,000 cycles, unlubricated, in air, room temperature, corrected for density differences.

\*\* Relative wear rate for comparison for alloys and not for design purposes.

Corrosive Wear in a Coal Mine Effluent*				
Alloy	Hardness Rockwell	Cumulative Volume Loss, mm <sup>3</sup>		
		Period 1	Period 2	Period 3
Nitronic SX	B93	1.31	4.27	7.13
304	B85	1.58	4.98	8.3

\* Test Conditions: Laboratory ball mill, 0.64 m/s, room temperature, Five 16-hour periods, pH 6.7, 2 liters of coal mine effluent, 0.2 liters pea gravel – 6.4mm + 3.2mm, duplicate sheets.



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