

# SermaShield™

# Magna

Non-Stick/Abrasion Resistant Coatings



**Out-Wear & Out-Last  
Conventional Nonstick  
Coatings 10:1**

Specializing In the Unique Needs Of The Food Processing & Pharmaceutical Industries

  
**SERMATECH®**  
International

# The Nonstick/Abrasion Resistant & Out-Last Conventional



## Nonstick & Abrasion Resistant

Sermatech is proud to bring to the food processing and pharmaceutical industries a revolutionary new coating technology uniquely formulated to attack the challenges faced by processing lines around the world.

**SermaShield Magna** has been gaining recognition throughout these industries for its fusion-bonded non-

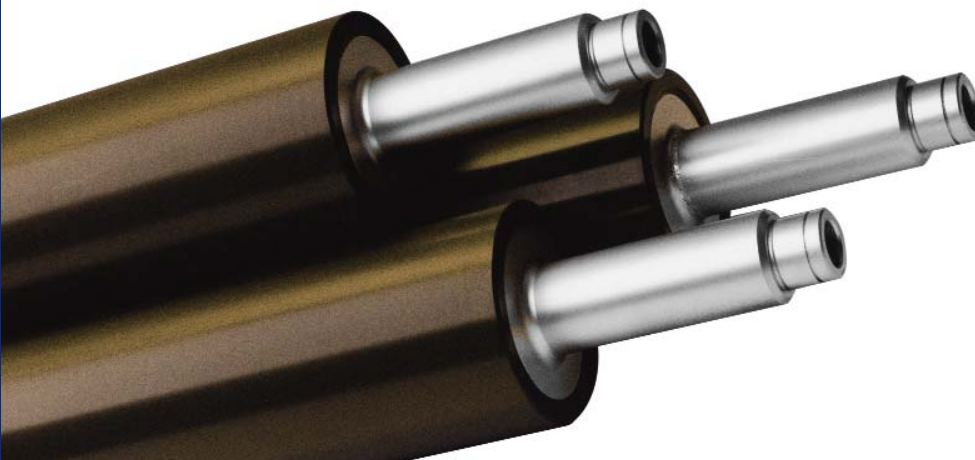
stick surface and an underlying proprietary intermediate layer designed to provide the ultimate in wear resistance.

The result: **SermaShield Magna** out-performs, out-wears and out-lasts conventional non-stick coatings 10:1.

Applied to processing equipment, in thicknesses of 10-20 mils, **SermaShield**

**Magna** is FDA and USDA compliant and proven effective in temperatures up to 500° F.

The bottom line: **SermaShield Magna** ensures a cost effective solution for applications where you demand the most effective non-stick performance and expect the toughest wear resistance.



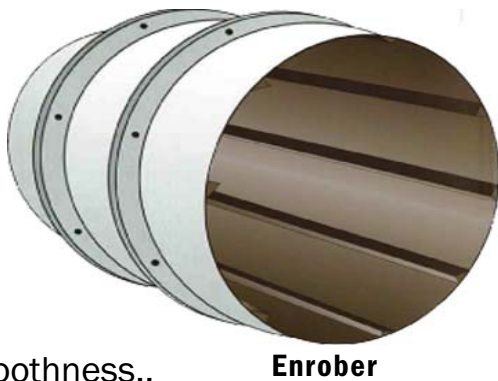
It's Like  
Two Great  
Coatings In  
One!

# Coatings That Out-Perform, Out-Wear Nonstick Coatings 10:1



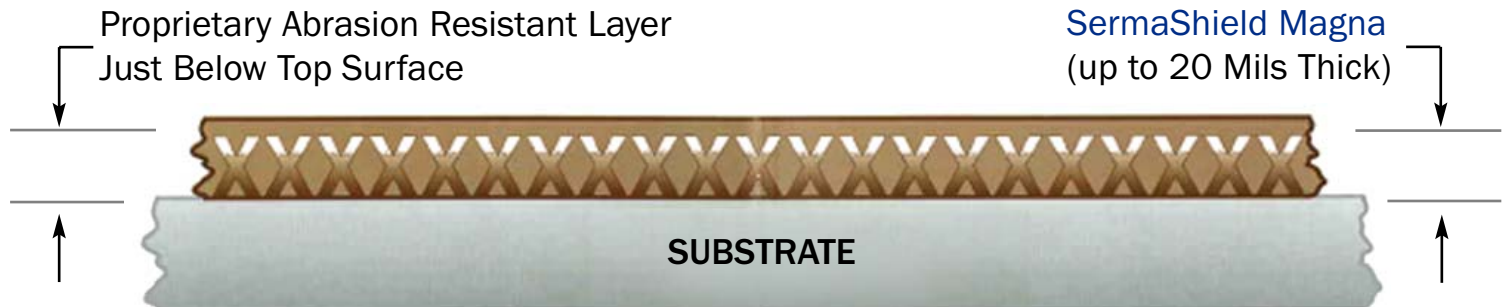
## Gentle Release, Tough Wear Resistance

- Ultimate nonstick performance and superior wear resistance.
- Reduces or eliminates the need for release agents and provides ease of clean up.
- Low friction processing.
- **FDA and USDA** compliant.
- Temperature resistant to 500° F.
- Can be machined to exact tolerances and smoothness..



## Perfect For Most Metal Substrates:

Augers	Freeze Dry
Blenders	Trays
Centrifuges	Hoppers
Chutes	Kettles
Coating Pans	Mixers
Conveyors	Molds
Cookers	Rollers
Cutters	Rounders
Dryer Trays	Tanks
Enrobers	Troughs
Feeders	



THE SECRET BEHIND **SERMASHIELD MAGNA** LIES IN A PROPRIETARY INTERMEDIATE LAYER WHICH PROVIDES THE BENEFIT OF UNPARALLELED PROTECTION AGAINST WEAR.

# SermaShield Magna Non-Stick/Abrasion Resistant Coatings

## Physical Properties

PROPERTY	ASTM	UNITS	SERMASHIELD
Density	D-1505	#/in <sup>3</sup>	.074
Operating Temperature Range		°F	-310 to +500
Linear Coefficient of Thermal Expansion	D-696	X10 <sup>-5</sup> °F	5.4
Thermal Conductivity at 23 °C		BTU/Hr/Sq Ft °F/In	1.5
Combustibility			Non-combustible
Water Absorption	D-570	%	<0.03
Tear Strength	D-1922	g/mil	40-70
Tear Elongation	D-638	%	300
Tensile Strength	D-882	lbs/in <sup>2</sup>	4000-7000
Surface Resistivity	D-257	Ohm/in <sup>2</sup>	10 <sup>17</sup>
Vacuum		Full vacuum capability	



The fusion bonded nonstick surface ensures that almost all substances release easily.



The special oil and water resistant surface is not easily wet, affording self-cleaning or making clean-up easier or more efficient.



May be used for applications where temperatures reach up to 500°F without loss of physical properties.



Features a high dielectric strength, low dissipation factor and very high surface resistivity over a wide range of frequencies.



Depending on the load, sliding speed and particular finish used, the coefficient of friction ranges from 0.05 - 0.20.



Normally unaffected by chemical environments (with exception of alkali metals and highly reactive fluorinating agents).

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