

# FLUOROSHIELD<sup>\*</sup> MAGNA

**Non-Stick / Abrasion Resistant  
Coatings**

**Out-Wear & Out-Last  
Conventional Non-Stick  
Coatings 10:1**

*Coating Technologies  
Worldwide*



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

# FLUOROSHIELD<sup>®</sup> MAGNA

## *It's Like Two Great Coatings In One!*

### Non-Stick & Abrasion Resistant

ISPA 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.

Fluoroshield<sup>®</sup> 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: **Fluoroshield<sup>®</sup> Magna** out-performs, out-wears and out-lasts conventional non-stick coatings 10:1.

Applied to processing equipment, in thicknesses of 10-20 mils, **Fluoroshield<sup>®</sup> Magna** is FDA and USDA compliant and proven effective in temperatures up to 500° F.

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

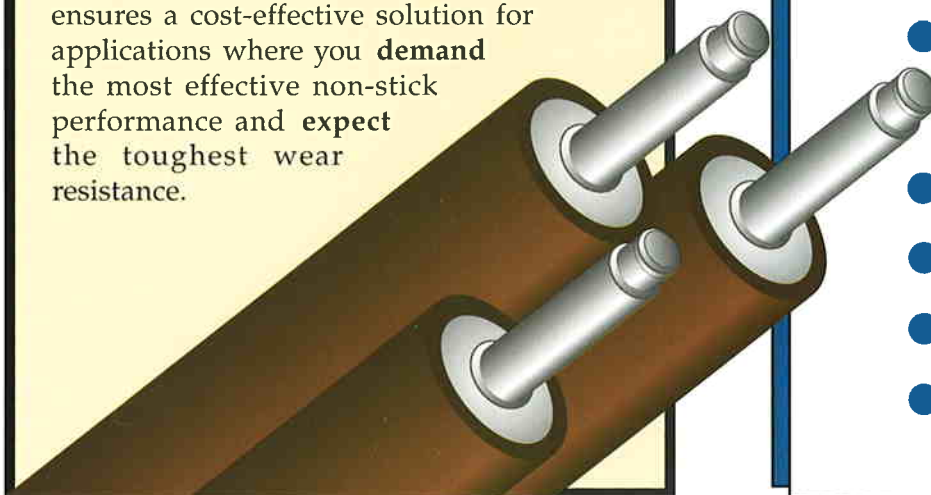
## The Non-Stick/Abrasion Resistant Coating That Out-Performs, Out-Wears and Out-Lasts Conventional Non-Stick Coatings 10:1



*The secret behind Fluoroshield<sup>®</sup> Magna is its fusion-bonded non-stick surface and an underlying proprietary intermediate layer designed to provide the ultimate in wear resistance.*

## Gentle Non-Stick Performance and Superior Wear Resistance

- Ultimate Non-Stick Performance and Superior Wear Resistance
- Reduces or Eliminates 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



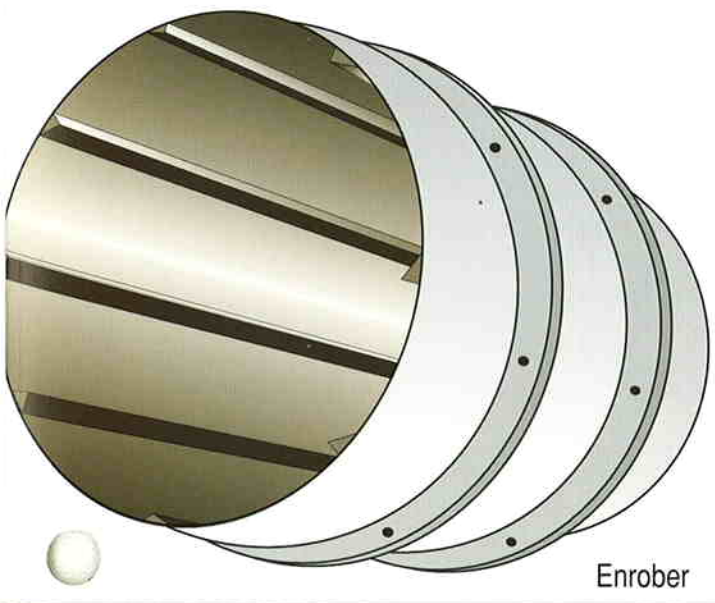
# A Non-Stick / Abrasion Resistant Coatings

**on Resistant Coatings  
Out-Wear & Out-Last  
Stick Coatings 10:1**



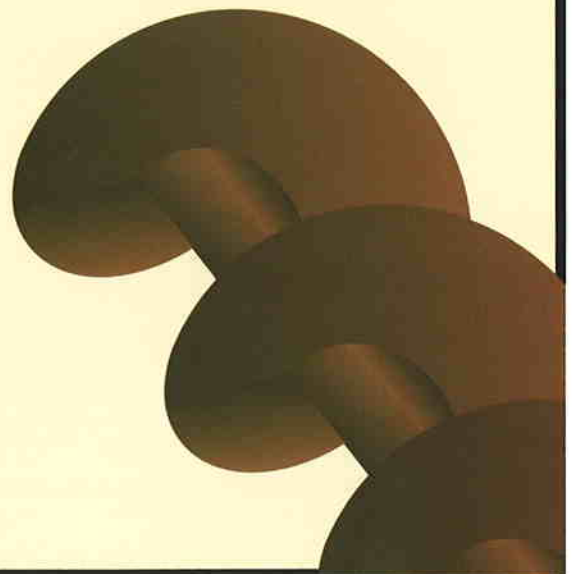
*lies in a proprietary intermediate layer  
warded protection against wear.*

**Release,  
r Resistance**



***Perfect For Most  
Metal Substrates:***

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



\*Fluoroshield is a registered trademark of W.L. Gore & Associates, Inc.

# FLUOROSHIELD<sup>®</sup> MAGNA

## Non-Stick / Abrasion Resistant Coatings

### PHYSICAL PROPERTIES

PROPERTY	ASTM	UNITS	FLUOROSHIELD
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
Oxygen Index		%	>95
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 non-stick surface ensures that almost all substances release easily.



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



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



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



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



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

*Samples Available Upon Request*