

## PRODUCT DATA SHEET

PRODUCT:	<u>RODUCT</u> : Trisodium Phosphate Crystalline (TSPc) Granular & Fines			
<u>GRADE</u> :	Technical	<u>CODE</u> : 100 (Granular) 110 (Fines)		
GENERAL DESCRIPTION: White, free-flowing, granules or powder.				
FORMULA:	Na <sub>3</sub> PO <sub>4</sub> •12(H <sub>2</sub> O)• <sup>1</sup> / <sub>4</sub> NaOH	MOLECULAR WEI	<u>GHT</u> : 390.12	
<u>CAS NO.</u> :	10101-89-0	DATE EFFECTIVE: May 19, 2006		
CHARACTERISTICS		SPECIFICATION LIMITS		
Assay, % Na <sub>3</sub> PO <sub>4</sub> (ignited basis)		90 Minimum		
P <sub>2</sub> O <sub>5</sub> , % (ignited basis)		18.5 - 21.0		
Alkalinity as Na <sub>2</sub> O, %		18.0 - 20.5		
Total Moisture, %		45 - 57		
Sizing	, USSS:	<u>Granular</u>	<u>Fines</u>	
	Thru 10 Mesh, % Thru 16 Mesh, % Thru 20 Mesh, % Thru 100 Mesh, %	100 Minimum   10 Maximu	100 Minimum 95 Minimum	

NOTE: Specification Limits are subject to change from time to time. Please contact us for current data sheet.

Production Location:	Lawrence, KS		
Packaging:	50 lb. multiwall bags, super sacks; bulk.		
Labeling Requirements:	Product label required by law.		
Shipping Classification:	Bagged Shipments: Trisodium Phosphate;		
	Bulk Shipments: Sodium Phosphate, Tribasic,		
	ORM-E, NA9148, RQ		
Handling Precautions:			
DANGER! CAUSES EYE BURNS. CAUSES SKIN IRRITATION. Do not get in eyes, on			
skin, or clothing. Avoid breathing dust. Keep container closed. Use with adequate			
ventilation. Wash thoroughly after handling.			
FIRST AID: IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Call			

a physician. IF ON SKIN, immediately flush with plenty of water. Remove contaminated clothing. Wash clothing before reuse.

## TRISODIUM PHOSPHATE CRYSTALLINE (TSPc), TECHNICAL GRADE MEDIUM GRANULAR & FINES

Although ICL Performance Products LP Trisodium Phosphate, Crystalline (TSPc) typically contains only 10 molecules of water of hydration (molecular weight of 353.97), it conforms to the general industry standard moisture requirement for Sodium Phosphate, Tribasic Dodecahydrate of 45-57%. Trisodium Phosphate, Crystalline and Trisodium Phosphate, Anhydrous (TSPa) are generally interchangeable in their applications if allowance is made for the differences in contained water. Additionally, TSP Crystalline contains <sup>1</sup>/<sub>4</sub> mole of NaOH per mole of TSP, giving it a slightly higher solution pH.

## Key Properties:

- Strongly Alkaline Salt
- Grease Emulsifier
- 24 month Shelf-life

- Buffer Capacity
- Precipitating Agent

- **Applications:** 
  - <u>Hard Surface Cleaning</u> A wide variety of moderately to heavily soiled surfaces are cleaned with TSP-based formulations. Generally the high solution pH and superior grease and oil emulsifying properties are important. Examples of hard surface cleaning applications are:
    - Heavy-duty & General Purpose Institutional Cleaners Concrete and Garage Floors Pre-paint Cleaners

Auto Metal Parts Household Products Scouring Cleansers

- <u>Water Conditioning</u> TSP is an excellent water softening agent due to its ability to precipitate both calcium and magnesium ions. In some industrial applications softening the water at high pH levels is a distinct advantage.
- <u>Potable Water Treatment</u>: ICL Performance Products LP trisodium phosphate, crystalline conforms to the requirements of ANSI / NSF Standard 60; used for corrosion & scale control. Maximum Use Level = 41 mg/L.
- <u>Textile Applications</u> TSP can be used in scouring and bleaching baths to provide high pH and alkalinity as well as removing potential stain producing cations, such as iron, by precipitation. It can also provide pH and buffer capacity to maintain alkaline dye baths in the proper pH range for maximum effectiveness thereby prolonging the life of the bath.
- <u>Paint Removers</u> The alkaline nature of TSP is utilized in formulating paint remover/stripper products. The high alkalinity aids in softening and loosening old paint, facilitating its removal.

## FOR MORE COMPLETE INFORMATION ON PROPERTIES AND SAFE HANDLING OF THIS MATERIAL, SEE THE ICL PERFORMANCE PRODUCTS LP MATERIAL SAFETY DATA SHEET (MSDS).

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Corporate Offices:

622 Emerson Road Suite 500 St. Louis, Missouri 63141 314-983-7500