

TECHNICAL DATA SHEET

HOSTATRON® P 1933
Endothermic Chemical Blowing Agent Masterbatch

Product Description

HOSTATRON® P 1933 is a highly efficient, endothermic chemical blowing agent concentrated in a polymer masterbatch carrier. Specially engineered for thermoplastic processing, this grade undergoes a controlled thermal decomposition that absorbs heat and releases carbon dioxide (CO₂). It is primarily designed to achieve a highly uniform, fine-cell cellular structure in extruded sheets and molded components, effectively reducing part weight and eliminating surface sink marks without compromising mechanical integrity.

Key Applications & Benefits

- **Fine-Cell Extrusion:** Optimized for the production of high-quality extruded sheets, profiles, and thin-walled structures.
- **Polymer Compatibility:** Specifically tailored for High Impact Polystyrene (**HIPS**), Polypropylene (**PP**), and general polyolefins or styrenic copolymers.
- **Surface Quality:** Excellent control over cell nucleation prevents gas pockets and counteracts sink marks in structural foam molding.
- **Physiologically Harmless:** Odorless decomposition products, making it suitable for high-purity industrial requirements.
- **Regulatory Compliance:** Formulated with components compliant with **FDA** regulations for food-contact applications.

Technical Specifications & Properties

Property	Typical Value / Specification
Chemical Type	Endothermic Chemical Foaming System
Physical Form	Granular / Masterbatch Pellets
Active Gas Released	Carbon Dioxide (CO ₂)
Carrier Polymer	Proprietary Thermoplastic Matrix
Recommended Dosage	0.5% – 1.5% (dependent on required density reduction)
Decomposition Range	170°C – 220°C (optimized for standard extrusion lines)

Processing & Handling Guidelines

- **Incorporation:** Can be directly dry-blended with the base polymer matrix prior to processing or introduced via automated volumetric/gravimetric dosing units.
- **Temperature Control:** Ensure melt temperatures reach the activation threshold ($>170^{\circ}\text{C}$) inside the barrel to guarantee homogeneous gas liberation, while avoiding excessive overheating past 230°C .
- **Storage Conditions:** Store in original, tightly sealed packaging in a cool, dry, and well-ventilated area. Protect from direct exposure to moisture and extreme ambient temperatures.

Disclaimer: The technical data and recommendations contained herein are based on typical industrial values and historical records. Since the actual conditions of processing and application are beyond our control, users are advised to conduct their own evaluation to determine the suitability of the product for their specific requirements.