OMNI-PURGE
- FACTS & INFORMATION -
CONCENTRATE AND PREMIXED

PPE Omni-Purge was specifically formulated for **thoroughly purging** and cleaning all types of plastic processing equipment. Omni-Purge may be used to clean injection molding and blow molding machines, extruders as well as machines equipped with hot manifolds. Color and/or material changes are no longer a long, wasteful process when you clean with Omni-Purge. You can safely purge all thermoplastic materials including thermoplastic rubbers. Omni-Purge combines both physical and chemical purging which is not possible with conventional purging agents where simple physical cleaning is prevalent. With only a small amount of Omni-Purge mixed with your molding plastics a certainty of cleanliness is realized without any detrimental effects to the metallic surfaces.

THREE FORMULAS AVAILABLE

PPE OMNI-PURGE is available in three formulas which will cover all applications where purging compound can be successfully used. OPC-1 is pure concentrate for blending with your carrier plastics up to 40% maximum concentration. OP-2425 and OP-3550 are premixed with various polyethylene carrier resins and are packaged in 5 pound plastic bags ready for immediate use. OP-2425 has a maximum operating temperature range of 425°F and OP-3550 maximum range of 550°F. For process temperatures above 550°F we suggest you blend OPC-1 concentrate with resin capable of withstanding higher molding temperatures. OPC-1 Concentrate will operate @ 700°F.

The effective purging mechanism of Omni-Purge is rather simple and yet complex, and may be described as follows:

1. Omni-Purge releases gaseous elements (e.g., CO_2 and N_2) thus causing material volume expansion allowing compound to reach “dead spots” in the equipment.
2. It neutralizes any acidic components that may be present.
3. It reduces viscosity of entrapped thermoplastics thus improving material flow-out.
4. Omni-Purge “lifts” and removes pigments, dyes, colorants, carbonized residue and foreign matter adhered to the metallic surfaces.

It must be realized that equipment not properly maintained or that may contain a great amount of old plastic residue may require several applications of Omni-Purge in order to remove the entrapped contaminants. In some instances, Omni-Purge may not clean plastic converting equipment especially when the equipment has had extremely poor maintenance or was badly misused. In this case, stripping down the equipment and complete manual cleaning may be the only solution.

FAST - THOROUGH

Omni-Purge is not a miracle product but it is a much improved purging agent when compared to the conventional purging compounds. For example, Omni-Purge reduces purging and cleaning time; with Omni-Purge it takes 10 to 15 minutes thus resulting in considerably shorter downtime periods. An extremely small amount of Omni-Purge and plastic component blended together is required for most purges, whereas with conventional systems considerable quantities of both valuable thermoplastic and purging compound are lost in the process. Conventional purging compounds function strictly by physical attrition while Omni-Purge combines physical and chemical cleaning for **fast, thorough cleaning.**

Periodic maintenance with Omni-Purge will decrease costly machine downtime, lower reject rates, reduce carbon and foreign material buildup and lessen “wear and tear” of metallic surfaces. In fact, by purging prior to shutting down your equipment, you will reduce check valve leakage and start-up problems. It stands to reason that clean thermoplastic processing equipment will minimize costly and unwarranted problems.

SAFE

An ammoniacal odor is quite obvious when using Omni-Purge but this is not regarded as a health hazard. In fact, all ingredients used are not considered toxic. However, as with all chemicals, dermal contact should be avoided and personal hygiene should always be observed.

WARNING: Polycarbonate and ABS.

Never use more than 20% Omni-Purge concentration blended with your polycarbonate carrier resin for purging polycarbonate.

Never use more than a 25% concentration with ABS carrier resin.

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