

# GYROSCOPE

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## Shamrock's e-Newsletter

안녕하세요! (Good day!)

The summer green reminds us of our focus on moving in step with nature, striving towards a sustainable environment and future as we work with performance products to better our lives. In this issue, we add to the family of Recycled PTFE offerings for the Grease market, enabling formulation of a more effective and stable high temperature grease. We also introduce a new alternative to 2 aging Hydrocer products which have seen issues with quality and tightening regulations. And finally, to help aid the easy donning of gloves to protect those with skin sensitivities, we highlight the series of wax products that are currently added to the coatings of these every day-use gloves.

In our Representative Spotlight, we are pleased to introduce one of our oldest partners in the business, **Hasang**. Mr SY Ahn became our sales teacher in 1986, and has contributed to our growth in many ways; it was his suggestion to manage our products according to Green, Yellow and Red Lists. As he seeks to gracefully retire, and pass along the sales torch to Eba Ahn, we wish to thank him for his many years of loyal service and friendship. **안 형님의 행운을 빕니다**

-Shamrock Marketing Team

What's New?

### Product Development: MACROPOWDERS

Shamrock stands out among the finest providers of specialty wax and PTFE micropowders.

Over the years, we have expanded our range of powders from the sub-micron, to the larger sized powders, which we have branded as Textures (UHMWPE-based), SPP (PP-based), TexMatte (PMMA-based), and FluoroTEX (PTFE-based).

We are pleased to continue this development at the behest of customers, and introduce 2 new grades: SPP-500 and XD-8430.

SPP-500 is the largest PP-based powder, recommended for use in digital toners (see GYROScope issue 6) texture and non-skid applications.

XD-8430 is a 80-100 micron pure Carnuba powder, suitable for use in powder coatings and intaglio inks. As an oxidized functional hard wax, it provides good rub, mar and abrasion resistance with minimum impact on gloss and clarity in a wide variety of resin systems.

| PP Series | A high melting (150°C) wax with controlled particle size for non-skid, texturing and abrasion resistance |        |       |           |
|-----------|--|--------|-------|-----------|
| Product   | Shape  | MV(μm) | Slip* | Abrasion* |
| SPP-10    | Irregular  | 10     | 3     | 7         |
| SPP-25    | Irregular  | 25     | 3     | 7         |
| SPP-40    | Irregular  | 40     | 2     | 7         |
| SPP-300   | Irregular  | 300    | 1     | 7         |
| SPP-500   | Irregular  | 500    | 1     | 7         |



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### Upcoming Shows

|             |                                 |
|-------------|---------------------------------|
| 9/11-9/13   | Battery Show                    |
| 9/13-9/14   | Asia Pacific Coating Show       |
| 10/9-10/11  | NPIRI Fall Technical Conference |
| 10/16-10/20 | Fakuma                          |

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## Product of the Month: Fluoro GT 105

Entering the month of July, we raise the spotlight onto a familiar product, **Fluoro GT-105**.

**Fluoro GT-105** is a part of our Fluoro GT, a low thickening efficiency series. This particular series is made from recycled PTFE micro powders that are sintered and highly crystalline. As a low thickening product, this line can be added with little to no change to the viscosity in any systems.

Newly added to our Fluoro GT series, we introduce Fluoro GT-103, with a mean particle size of 3µm, and Fluoro GT-110, at mean particle size between 10-12µm.

**Fluoro GT-105** may be formulated into greases for chains, bicycle spokes, brake calipers, sealants, tubes, dry film spray, and as a salt spray corrosion inhibitor. Fluoro GT is used in base oils such as silicone, PAO, and other industrial oils.

The Fluoro GT series imparts excellent lubricity and improves anti-wear, making it an excellent choice in industries relative to automotive, and household appliances. Aside from everyday use, **Fluoro GT-105**, with its finer mean particle size of 5µm, can be used in high tech military applications, aviation, and aerospace.



What's Cool?

### Representative's Spotlight: Hasang Interchem



Hasang was incorporated in December 17<sup>th</sup>, 1985. Hasang has been partnered with Shamrock since 1986.

| Specialty Industries |          | Sales region |
|----------------------|----------|--------------|
| Coatings             | Grease   | South Korea  |
| Inks                 | Plastics |              |
| Paints               |          |              |

- What are the best products Hasang recommends on Shamrock's behalf?
  - a. FluoroSpere 966 and MF-123 for Inks
  - b. SST-3A and Fluoro GS 100 for Grease
  - c. SST-3 and SST-4 for Coil Coatings
- What trends do you see in today's market?  
We see growing trends of powder coatings and water-based coatings markets due to tightening VOC restriction.
- Where do you see the market going in the next 5 years?  
We always are looking for new business with Shamrock and we see trend of growing in Grease and UV Inks market.

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## Wax Additives for Glove Coatings

In a recent successful coatings application, our Asia based clients have found success using **AquaFLON 797** in rubber and gloves. While using **AquaFLON 797**, a PTFE-based dispersion in water, we've seen improvements in slip, anti-blocking properties, and stability. Applicable uses include coatings in gloves made of natural latex, synthetic latex, acrylic or polyurethane resins. **AquaFLON 797** is able to provide an advantage over our competitor's similar products due to the finer particle size of the dispersion.

As an alternative to **AquaFLON 797**, **AquaFLON 178G** has a much finer particle size. It is mainly being used by glove manufacturers in their dipping tank during the last stage of the manufacturing process. **AquaFLON 178G** provides slip, anti-blocking properties, rub resistance, and water repellency. This additive is frequently used in high performance gloves due to its high efficiency performance properties.

Alongside the AquaFLON line, another surface additive used in glove coatings is **Neptune 5223**, an oxidized micronized wax designed for ease of dispersability in water based systems making it useful in glove coatings. Neptune 5223 provides good slip, hand feel, and mar resistance to natural and synthetic latex. Clients have also found success using **Neptune 5223** in wood and leather coatings.

