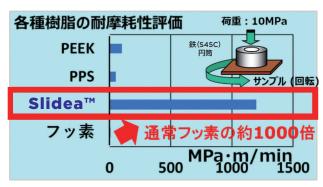
## ポリイミド系摺動部品 Slidea™

## |製品の概要

- ・ポリイミド等の硬質樹脂に潤滑性を付与した コーティング材Slidea™(開発中)
- ・樹脂として、最高度の耐摩耗性、 摺動性、非粘着性あり



スラスト摩耗試験結果(ドライ)

## |製品の特長

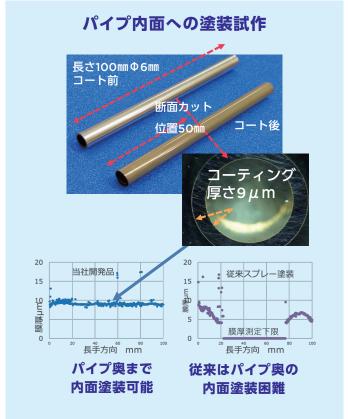
従来塗装が困難な部品や材料に対しても、低摩擦、耐摩耗、 高精度に塗装できる技術を開発、以下の効果が見込まれる

- 1. 電力消費削減: 駆動部品の摩擦・摩耗低減
- 2. 軽量化: マグネシウム合金、アルミ等の軽量金属の耐摩耗改善

## | 製品用途・活用事例

- 1. パイプ内面への塗装 ワイヤー、硬度物質搬送の潤滑性
- 2. マグネシウム合金の潤滑、低発塵: 塗装による耐摩耗性、潤滑性、 摩耗による粉塵低減、難燃性





## |当社の強み

潤滑性の高い塗料と塗装技術を開発。従来にない塗装厚み精度を実現

## Slidea<sup>TM</sup> Polyimide-based Coating with Enhanced Sliding Performance

## Overview

- Slidea<sup>™</sup> is a coating material (under development) adding lubricity to hard resins such as polyimide.
- As a resin, it performs the highest level of wear resistance, sliding, and non-adhesiveness.

# PEEK PPS 1000 times higher wear resistance than conventional fluoropolymer MPa·m/min 0 500 1000 1500

Thrust Wear Test Results (in dry condition)

## **Features**

We have developed a technology of being capable of applying low-friction, wear-resistant, and high-precision coating to components and materials that were conventionally difficult to be coated.

**Desired results:** 

- 1. Reduce power consumption by reducing friction and wear on driving components
- 2. **Achieve light weight** by improving wear resistance of lightweight metals, e.g. magnesium alloys and aluminum

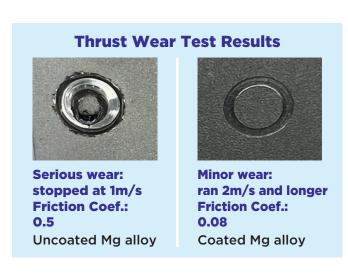
## | Applications & Use Cases

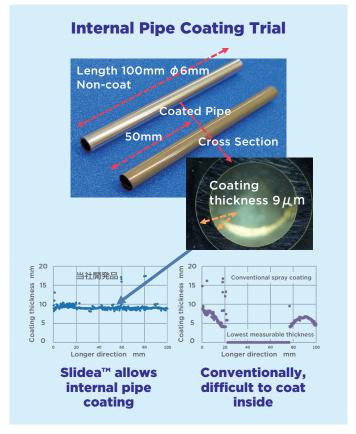
### 1. Internal pipe coating

Add lubricity for conveying wires and hard materials efficiently

## 2. Lubricity and reduced dust emission on magnesium alloys

Enhance wear resistance and lubricity with coating, reduce dust emission generated from wear Flame-retardant





## Our Advantage

We have developed highly lubricative coating materials and technologies achieving unprecedented accuracy of coating thickness