Advanced Bearing Material (coating)

- Electrostatic powder or solvent-borne coating
- Working temperatures from cryogenic to 300°C
- Low coefficient of friction
- Outstanding wear resistance
- Long service life
- Compatible with different additives

Available for sampling call 217-778-4400 or email sales@atspinnovations.com
Excellent Tribological Performance

**Ultra-low wear rate** (4.15x10^{-8} mm³/Nm)

In boundary lubrication, ATSP/PTFE coatings withstood 13 MPa contact pressure for 2.4 m/s and 3.6 m/s over 1 million cycles.

**Extreme temperature** (-160 to 300°C)

ATSP coatings have 40% and 25% lower COF compared with PEEK coating at -40°C and -160°C, respectively. Wear occurred only by burnishing of surface peaks.

**Abrasice conditions**

In both sand (#140, 2 wt.%) in oil and drilling fluids (59 wt.% solids) environments, low surface damage and high elastic recovery

**Easy applied powder coatings and composites with lubricating/reinforcing additives—examples include:**

- Carbon black
- Molybdenum disulfide
- Graphite
- PTFE
- Carbon Nanotubes
- Graphene

**Micro-scratch Test**

PAI (polyamideimide)/PTFE

**ATSP S7-05P**