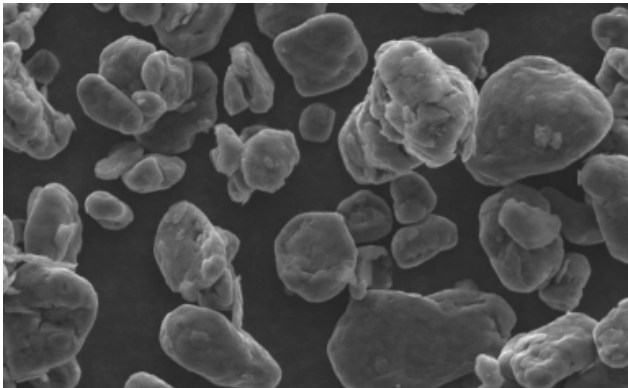




Synthetic Graphite Powders for Lithium-Ion Batteries Grade TS-5542

Synthetic graphite is prized in lithium-ion battery anode powder applications for its high charge and discharge efficiencies. Grade TS-5542 is a coated secondary powder designed for lithium-ion battery applications.

| Property | Unit | Typical |
|---------------------|-------------------|---------|
| Particle Size, D50 | μm | 22.8 |
| Surface Area | m ² /g | 1.41 |
| Tap Density | g/cm ³ | 1.07 |
| Scott Density | g/cm ³ | 0.69 |
| Ash | ppm | 150 |
| Reversible Capacity | mAh/g | >350 |
| IRCL | % | 12 |



Technology



- Largest anode powder Acheson graphitization capacity in the United States.
- Low impurity graphite for increased battery safety.
- Over 135 years of cutting edge carbon and graphite material science experience.

Customer



- Long history of technical partnership and collaboration with customers to develop custom products for the battery industry.
- World renowned technical team in place and available for immediate collaboration.
- Supply chain security of a domestic manufacturer.
- Continuity of supply ensured by long-term relationships with key raw materials suppliers.

Quality



- Consistent quality product backed by ISO 9001:2015 accreditation.
- IATF 16949 certification expected in 2020.
- Manufacturing partner with Amsted Industries.