Aerospace Product Guide

Exceeding Expectations

At Zeus, we have dedicated 50 years to building products that meet military specifications and having a global supply chain that enables us to exceed delivery expectations.

To evaluate samples or request a quote, contact one of our technical account managers. Zeus is AS9100 | ISO 9001: certified.

For more information on our capabilities beyond what’s listed here, contact us at (803) 268-9500 to see how our team can engineer a solution for your Automotive Industry applications.

Mil-spec/ASTM | Resin | Class

| ASTM D 3295, AMS 3653, MIL-I-22129 | PTFE: Extruded Tubing Standard Wall |
| ASTM D 3295, AMS 3655 | PTFE: Extruded Tubing Thin Wall |
| ASTM D 3295, AMS 3654 | PTFE: Extruded Tubing Lightweight Wall |
| ASTM D 3296 | FEP: Extruded AWG Tubing Lightweight & Std. Wall |
| ASTM D 3296 | FEP: Extruded Fractional Tubing |
| ASTM D 3295 | PTFE: Beading/Monofilament AS23053™/12 |
| PTFE: Heat Shrink AS23053™/11 |
| FEP: Heat Shrink AS81914/1 TYPE 1 |
| PTFE: Convoluted Tubing Standard Flex AS81914/2 TYPE 1 |
| PTFE: Convoluted Tubing Extra Flex AS81914/3 TYPE 1 |
| FEP: Convoluted Tubing Standard Flex AS81914/4 TYPE 1 |
| FEP: Convoluted Tubing Extra Flex AS81914/5 TYPE 1 |
| ETFE: Convoluted Tubing Extra Flex AS81914/6 TYPE 1 |
| ETFE: Convoluted Tubing Standard Flex ASTM D 3295 |
| PTFE: Spiral Wrap |
Performance Polymers

PTFE
- Continuous service temperature: 500°F / 260°C
- High temperature thermoset with low flammability
- Convoluted tubing, heat shrink tubing, spiral cut for wire bundles, or custom profile extrusions
- Chemical resistance
- Excellent insulator
- UL 94 V-0
- FAR 25.853 (a)

ETFE
- Continuous service temperature: 302°F / 150°C
- Great crush resistance
- Convoluted tubing for wire protection
- Resistance to chemicals and corrosion
- FAR 25.853 (a)

PFA
- Continuous service temperature: 500°F / 260°C
- Exceptionally clear high-temperature thermoplastic tubing utilized in lighting system design and critical fluid handling environments
- Optically clear
- UL 94 V-0
- FAR 25.853 (a)
- Weight reduction

PVDF
- Excellent mechanical properties over a broad temperature range -58 °F to 302 °F (-50 °C to 150 °C)
- Chemical resistance to solvents, acids, and bases
- Great dielectric strength
- Strong abrasion resistance
- Excellent creep resistance
- Low permeability
- Drawn fiber, precision tubing, and custom profiles

FEP
- Continuous service temperature: 392°F / 200°C
- Performance thermoplastic with low flammability
- Convoluted tubing, drawn fiber, heat-shrinkable tubing, or custom profiles
- FAR 25.853 (a)

PEEK
- Continuous service temperature: 500°F / 260°C
- Abrasion resistant thermoplastic that performs in extreme temperatures and hostile environments
- Chemical resistance
- Convoluted tubing, PEEKshrink®, drawn fiber, and PEEK Insulated Wire
- FAR 25.853 (a)
- Lightweight