



Ultracomp® Bearing Materials

Product Name	Description	Typical Application
UC100	Poly/Poly blend - no lubrication added	Primarily for applications requiring dielectric insulation
UC200	Poly/Poly blend with graphite lubrication	High load, self lube dry bearing applications, low speed
UC200FR	Special Fire retardant grade for transport industries - low smoke/toxicity output, no drip	High load, self lube dry bearings, low speed oscillating Excellent sliding friction for wear pads or rotary bushes
UC300	Poly/Poly blend with PTFE lubrication	High load, medium speed, oscillating, linear or rotary
UC300A	Poly/Poly blend with PTFE lubrication	Marine grade for both wet and dry in salt or fresh water
UC300AX	Poly/Poly blend with PTFE lubrication and abrasion resistance additive	Special abrasion resistant grade for dry, abrasive applications
UC400	Poly/Poly blend with MOS2 lubrication	Salt water marine apps or higher speed dry running applications
UC500	Poly/PTFE blend with graphite, PTFE or MOS2	Used when low friction in dry service are required. Type of lubrication will vary on application requirements.
UC600	Poly/Poly/Aramid blend with graphite or PTFE	Used in applications requiring higher operating temperatures, in dry applications

General Application Statements

- All Ultracomp bearing materials are high load, low speed materials designed to operate in extreme conditions without lubrication.
- Ultracomp materials have static load capacities ranging from 45,000 to 54,500 psi but these are failure points. Dynamic loads range from 9500 psi to 22,000 psi depending on the speeds of the application and operating temperatures.
- Ultracomp materials have little to no swell when exposed to moisture including full, continuous submersion.
- Ultracomp materials do not contain plasticizers and will not break down when exposed to UV or ozone. Excellent long term service outdoors.
- All Ultracomp materials block galvanic corrosion against mating hardware. The exception is submerged bearings in salt water where we recommend UC300A or UC400. All other materials will run corrosion free against all mating materials.
- All Ultracomp materials are designed to run dry and perform best in those conditions. If lubrication is to be used we highly recommend a light duty lubrication such as lithium grease to avoid pick up of external contamination.
- All Ultracomp materials will get the longest life and lowest friction when design criteria for surface finish and hardness are followed. 8-16 rms and 35RC are recommended for optimized performance.



We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



Ultracomp™

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



TriSteel™

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



Rulon®

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



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