

Ultracomp[®] FR Delivers Exceptional Fire Resistance Aboard Rapid Transit



A simple spark generated from a moving train can quickly ignite paper refuse along electric rails. Even steel dust can ignite if left to accumulate too long. A simple change from metal to composite bearings helped one major transit system improve safety on the rails by reducing the threat of fire.

Our client manages one of the largest transit systems in the world; transporting over 1.5 million riders annually. Given this massive passenger volume, system designers wanted to replace greased bronze bearings with flame-retardant composites on the undercarriage of the passenger cars.

The undercarriage is particularly susceptible to fire due to electrical wires, system oils and natural sparking from the dust and grease accumulation on the third rail.

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■ A partnership with TriStar gives you a competitive edge.



Ultracomp Bearings

Fire resistant and fully reliable

After a site visit and sample testing, our team recommended UC200FR composite bearings as a good fit for the car brakes, couplers and other areas. The material has high tolerance for the vibration, impact and corrosion of a transit application, and they are built of a flame-retardant resin.

Interested in Learning more about Ultracomp or railroad applications?

We have compiled these resources for you:

- See our [Ultracomp video](#).
- View our [Ultracomp product brochure](#).
- Visit our [railroad industry page](#).
- Download your copy of the [railcar manufacturing technical paper](#).

Do you have questions about Ultracomp or any bearing or plastic engineering topic? [Ask our Experts!](#)

1-800-TriStar [874-7827]

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



Enhanced Materials Division

- Plasma Surface Treatment
- Specialized Primers & Coatings
- Material ID & Selection
- Process Engineering | Analysis & Testing



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