

ELEVATE CVJ BOOTS & BELLOWS *PERFORMANCE*

ARNITEL® – THE SMART CHOICE FOR HIGH-PERFORMANCE CVJ BOOTS, BELLOWS AND HOSES

In the development of demanding automotive applications, manufacturers face key challenges:

- **Selecting durable materials** that withstand extreme heat, oils, grease, and corrosion.
- **Optimizing manufacturing efficiency** while keeping costs under control.
- **Designing components** that minimize contact and reduce wear.
- **Meeting strict industry standards** for hydrolysis and abrasion resistance.

That's why leading automotive manufacturers trust Arnitel®.

Arnitel® blends the strength of engineering plastics with the flexibility of rubber, delivering **unmatched durability, heat resistance, and performance**. Its superior resistance to hydrolysis and abrasion ensures a longer service life while exceeding the industry's toughest compliance standards.

Boost reliability. Enhance performance. Choose Arnitel®.



IMPROVING DIAPHRAGM PERFORMANCE

Diaphragm performance – the boot's ability to flex and expand under varying conditions while protecting the joint – is a common issue for CVJ boots. This requires a material that is flexible and elastic so it can stretch and compress without cracking as the joint moves.

Envalior developed an injection moldable grade to address this need. Contact us for more information.

ARNITEL® *EXCEEDS* TODAY'S MATERIAL CHALLENGES

- 1 **Improved Flexibility** — Arnitel® maintains its elasticity over a wide range of temperatures.
- 2 **Abrasion Resistance** — Arnitel® is highly resistant to wear and tear, which is critical for protecting components in harsh operating conditions.
- 3 **Crack Resistance** — Arnitel® resists cracking and splitting, even under repeated stress or extreme movement.
- 4 **Thermal Stability** — Arnitel® retains its physical properties over prolonged exposure to heat.
- 5 **Chemical Resistance** — Arnitel® is resistant to oils, grease and corrosion.
- 6 **Weight Reduction** — Arnitel® is lighter than traditional rubber, contributing to overall vehicle weight reduction and improved fuel efficiency.
- 7 **Customizable Properties** — Arnitel® can be engineered to meet specific performance requirements, such as stiffness, hardness, or color.
- 8 **Thin-Wall Capability** — Arnitel® allows for thin-wall designs without sacrificing strength, enabling compact and efficient component designs.
- 9 **Recyclability** — Unlike traditional thermoset rubbers, Arnitel® can be melted and reprocessed, reducing waste and promoting sustainability.

Grade	CVJ Outboard	CVJ Inboard	Prop Shaft	Steering Bellow	Suspension Bellow
EB463	√	√			
EB464	√	√		√	√
EB464-01‡	√+	√			
PB420	√+	√		√	√
PB420-B‡	√++	√			
EB501		Adapt design	√		√
PB582-H			√		
PL420-H		Adaptor ring			

‡ Improved anti-squeak

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