



# GLASSINSIGHT

Improving Performance In Production

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[www.Pyrotek.info/glass](http://www.Pyrotek.info/glass)

## ask the expert...

### DUPONT™ VESPEL® — INNOVATION FOR GLASS WAREHANDLING

DuPont™ Vespel® is an innovative new material technology for glass ware handling available from Pyrotek. In an effort to help customers understand this material better, Jeff Loudin, Technical Service Consultant, Dupont™ Vespel® Parts and Shapes\* responds to a series questions about DuPont™ Vespel®.

**Q: What is the DuPont™ Vespel® material?**

A: DuPont™ Vespel® parts and shapes are made from DuPont polyimide resins, and are available in many engineered compositions to provide an outstanding combination of properties for the following: resistance to extreme heat, good mechanical strength, low coefficient of friction, high dielectric strength, dimensional stability, wear resistance and toughness.

Today, many dependable DuPont™ Vespel® parts are operating successfully in automotive, on- and off-road vehicles, construction equipment, aerospace engines, electronic equipment, energy and material handling—wherever trouble-free material performance is vital to success.

**Q: What are the main characteristics, specifications and product range?**

A: DuPont™ Vespel® parts are custom-made from SCP-5050 polyimide resins to combine the best characteristics of plastics, metals and ceramics. DuPont™ Vespel® parts resist wear, fight creep, and have high temperature resistance; these properties allow them to survive a broad range of conditions. Our parts provide outstanding wear resistance in lubricated or unlubricated environments; can operate continuously from cryogenic temperatures to 288°C (550°F), with short-term use to 482°C (900°F) and above; offer low thermal and electrical conductivity; and are easily machined without special equipment or procedures.

**Benefits of Vespel® vs competition**

- Higher temperature resistance
- High wear at higher pressures
- Good mechanical properties
- Provide good surface compliancy
- Low coefficient of friction and co-efficient of thermal expansion

**Q: What are the special properties and advantages for the glass manufacturing industry?**

A: There are four key properties and advantages of the SCP-5050 material:

1. Low Thermal Conductivity
2. High Impact Resistance

3. Reduced Oil Absorption
4. Less Wear for Longer Life

**Q: How can Vespel® improve performance in handling hot glass ware?**

A: The DuPont™ Vespel® SCP-5050 material is a proprietary material that represents a comprehensive solution for hot glass handling applications. The unique properties exhibit lower thermal conductivity and oil absorption, and higher impact and wear resistance than conventional carbon graphite parts, which increases plant reliability and lowers operation costs by delivering extended life and less glass checking compared with conventional glass handling technology. These main applications are the following: take-out inserts, sweep-out fingers, stacker bar and transfer pads.

For more information about DuPont™ Vespel®, contact your local Pyrotek sales engineer or visit [www.pyrotek.info/vespel](http://www.pyrotek.info/vespel).

*\* Jeff Loudin is a Technical Service Consultant for DuPont™ Vespel® Parts and Shapes, based out of Newark, Delaware, USA.*

GLASS HANDLING TECHNOLOGY

Increase melt pack ratios and lower operation costs.

DuPont™ Vespel®  
GLASS HANDLING TECHNOLOGY

Available through  
**Pyrotek**  
Improving Performance  
In Glass Warehandling

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