

AUTHORISED DISTRIBUTORS OF

DuPont™ Vespel®

Polyimide Parts and Shapes

CHIME

Engineering

Gateway to the World of Polymers



- Compression Moulded & sintered parts
- No Melting Point
- From Cryogenic upto 288° C with excursions upto 482° C
- Wear and Friction grades
- Excellent Thermal & Electrical Insulation
- Available as parts & shapes
- Easily Machinable

Vespel® for

- Automotive
- Textiles
- Aerospace
- Holography
- Hot Runner Injection Moulding
- Compressors & Valves
- Sci - fi Instruments

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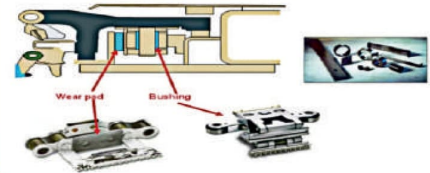
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www.chime.co.in

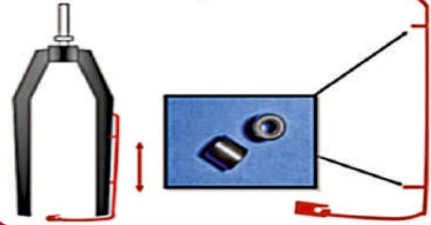
TEXTILES

- ▶ Low Co-efficient of Friction
- ▶ Maintains High Load-Speed (PV) with no Lubrication
- ▶ High compressive and elongation strength
- ▶ Dimensional stability and Resists Creep
- ▶ Withstand high Mechanical Load
- ▶ Good thermal and Impact resistance
- ▶ Reduced Equipment Vibration and noise
- ▶ Lube free parts for clean textile manufacturing.

Finishing: Stenter Clip Parts



Roving Frame



AEROSPACE

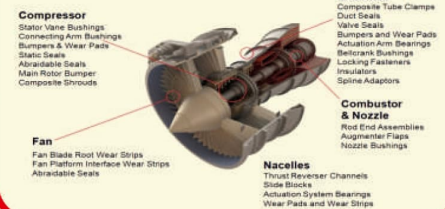
Applications

- ▶ Compressor Bushings
- ▶ Bearings
- ▶ Wear Pads
- ▶ Washers
- ▶ Valve Seats

Product Benefits

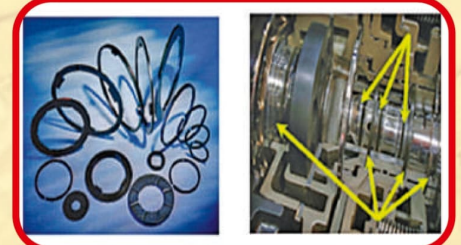
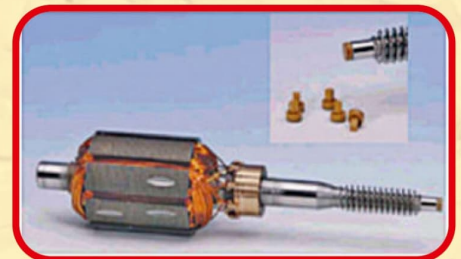
- ▶ Low wear
- ▶ High Heat Resistance
- ▶ Toughness
- ▶ Inherent Lubricity
- ▶ Easy Machining

DuPont™ Kalrez® Vespel® engine solutions
Improving performance, extending life, saving weight & lowering cost.



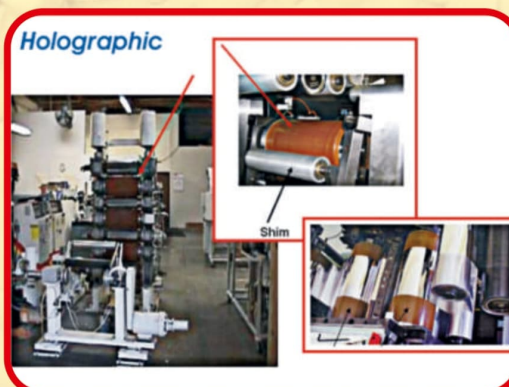
AUTOMOTIVE

- ▶ Fuel pumps bearings, seals and valves
- ▶ Transmission Seal rings & thrust washers
- ▶ Bushings and Seals for fuel injectors
- ▶ EGR Valve & Turbo charger bushings
- ▶ LPG carburetor Seals
- ▶ Brake pad wear sensors
- ▶ Small electric motor bearings and thrust devices
- ▶ Seals, Washers and Valves for axles and Hydraulic systems
- ▶ Suspension and Shock absorber components
- ▶ Piston rings



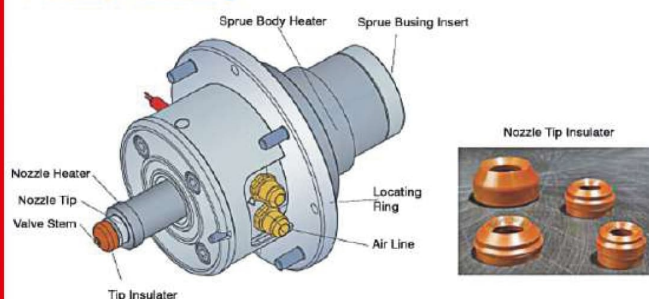
HOLOGRAPHY

- ▶ Better Holographic Brilliance
- ▶ Calendaring Rolls - Holographic Imaging
- ▶ Longer life of Shim and Compliant Roller



HOT RUNNER INJECTION MOULDING

Plastic Molding



- ▶ Excellent Thermal Insulator
- ▶ Vespel® Nozzle Tip Insulators Prevent molten plastic from being sucked up into the drop

COMPRESSORS & VALVES

- ▶ Excellent Creep resistance, Compliance & Stable Mechanical Properties at elevated
- ▶ Increase Valve MTBR and better seal
- ▶ Low coefficient of friction
- ▶ Wide range of temperature capabilities - 196° C to 288° C
- ▶ Excursions up to 482° C
- ▶ Does not become brittle at cryogenic temperatures



Textiles



Slide Bearing

Textiles



Slide Bearing

Textiles



Flanged Bushes

Textiles



Dobby Jack Bushing

Textiles



Solenoid Bearing

Textiles



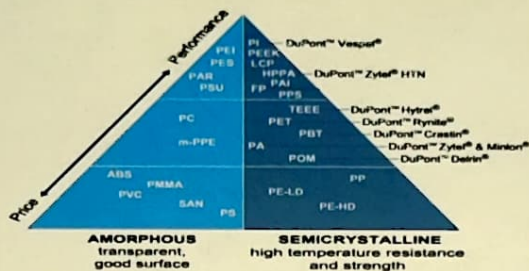
Slide Bearing

Plasma Cutters



Swirl Ring

Vespel® is positioned at the top of the polymer performance pyramid



Sci - fi Instruments



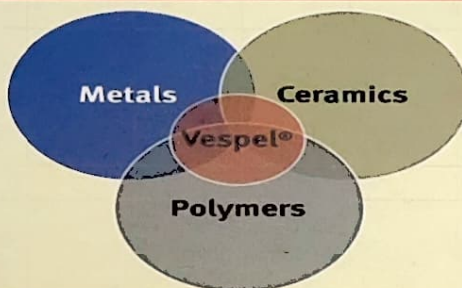
Rotor Seals

Sci - fi Instruments



Ferrules

Replacing Metals & Ceramics



Hot Runner Moulds



Insulator Washer

Hot Runner Moulds



Insulator Caps

Hot Glass Handling



Vial Gripper / Finger

Hot Glass Handling



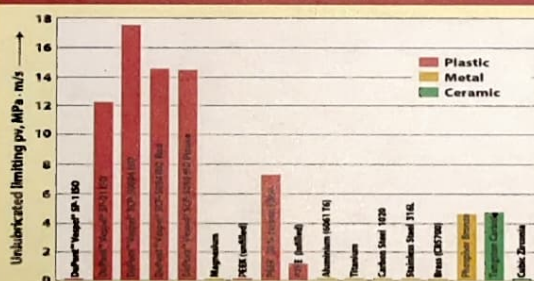
V - Blocks

Auto Transmission



Thrust Washer

Pressure velocity (PV) resistance



Deformation after exposure to 370°C for 6 hours

