

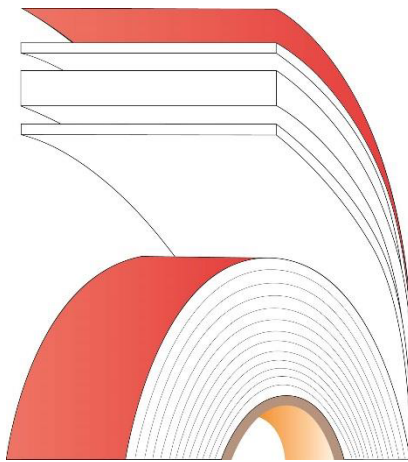
# VST 7831 LSE Series

## Product Information

### VST 7831 LSE Series

**Chem-Set™ VST 7831 LSE Series (31 mil)** is a double coated (Coating 90) High conformable acrylic foam tape and offers a good adhesion on a wide variety of automotive applications and especially on LSE substrates without using a primer or other surface modifications. Other features are: very good shear strength, good initial strength, very good long term stability and very good adaptability to the bonding surfaces. Because of the viscoelastic properties, tensions in the adhesive seam are perfectly removed and allow a very durable bonding.

Siliconised Red PE liner  
Coating 90  
Soft Foam  
Coating 90



Thickness: 0,8 mm (0.031 inch) ± 15%  
Core: High Conformable soft foam acrylic  
Adhesive: Acrylic coating 90  
Density: 600 kg/m<sup>3</sup> (37lb/ft<sup>3</sup>)  
Color: White  
Liner: Siliconised Red PE liner  
Temperature Resistance:  
Minimum: -40°C (-40°F)  
Short term: 100°C (248°F)  
Long term: 80°C (194°F)

90° Peel Adhesion	N/10mm (lb/in)	46 (26)	ASTM D3330
Dynamic Shear Strength	kPa (lb/in <sup>2</sup> )	540 (78)	ASTM D-1002
Normal Tensile	kPa (lb/in <sup>2</sup> )	520 (75)	ASTM D-897
Static Shear Strength	g/312mm <sup>2</sup> > 10,000 min. (7 days)	22°C (72°F) 1000 66°C (150°F) 500 93°C (200°F) 250 121°C (250°F) 177°C (350°F)	ASTM 3654

### Suitable for:

- Various medium and low surface energy plastics
- Powder coatings
- Clearcoats
- Ceramic car paints

### Available sizes:

- Jumbo: 500mm x 330 m (76,2 mm core)
- Log: 500mm x 33/66 m (76,2mm core)
- Slit roll: 4 – 2S0mm x 33/66 m (76,2mm core)
- Spool roll: 5 – 25mm x max 600 m (152,4mm core)



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**Surface:** Tape bonding is one of the most variable and easy technology mating substrates. Especially for assemblies made of different substrates having different thermal expansion rates bonding is a easy method for a long term durable joint. **Chem-Set™ VST tapes** allow a high variation in such substrates as all are available in different thickness. To ensure proper performance of such bonded part follow the following recommendations.

**Design:** A proper tape bond design means avoiding cleavage and peel forces. Design leading to pure shear and tensile loads have to be preferred to utilize full **Chem-Set™ VST tape** performance.

**Surface Preparation:** All bonding process require proper surface preparation / cleaning. This will enable **Chem-Set™ VST tapes** to get in direct contact with the surface creating full adhesion force. Remove most (polar) contaminations such as fingerprints and light oil. Check suitable cleaner with surface test inks. Use lint free tissues for such operations.

**Surface Modification:** If simple cleaning cannot achieve appropriate adhesion forces the following surface modifications can be used. All primer / activators should only be used on the area for bonding. Excess material has to be cleaned immediately.

**Temperature:** After proper surface preparation / modification **Chem-Set™ VST tape** should be applied at a temperature level above 18°C (65°F). For temperatures below this but above 0°C (32°F) use low temperature **Chem-Set™ VST tape**.

**Pressure:** Ensure immediate part assembly after liner removal. Pressure should be applied in rolling fashion at approx. 10N/cm<sup>2</sup>. Recommended roller speed at 10 mm/s (24 in./min.). Higher velocities might require higher pressure or control with surface pressure films. **Chem-Set™ VST tape** achieve their full strength after 24h at ambient temperature. Higher temperatures can accelerate strength development.

**Storage & Shelf Life:** Store **Chem-Set™ VST tapes** between 5° and 35°C (40°-95°F). Humid condition causing condensation should be avoided. For products with non-siliconized liners shelf life is 24 months.

**Disclaimer:** All technical data in this product data sheet are based on Chemical Concepts experiences and external testing. These values are representative for the overall performance. These data sheets are NOT to be used for specification purposes or for your own specific application. It is your responsibility to test whether the tape is suitable for your application or project. Chemical Concepts will NOT be held liable for any information provided on this data sheet. Please follow the rules and regulations that are applicable in the state, county or country where the product(s) are being used. If you have any questions regarding the use of the **Chem-Set™ VST tapes**, please contact your local sales team. For questions on the standard warranty, please review our terms and conditions.