

Fibre Specification

| SN | Description (with Units) | BHEL Specification |
|-----------|---------------------------------------|---|
| 1 | Fibre type | Aramid fibre rovings |
| 2 | Dtex (grams/10000metres) | 2500 to 3500 |
| 3 | Modulus (GPa) | 95 to 110 or Better |
| 4 | Elongation at Break at 298 K (%) | 2.2 to 2.5 or Better |
| 5 | Tenacity (N/tex) | Minimum of 1.5 |
| 6 | Poisson ratio | 0.35 to 0.5 or Better |
| 7 | Thermal conductivity at 298 K (W/m-K) | 0.01 to 1.0 or Lesser |
| 8 | Working Temperature | 4.5 K to 300K |
| 9 | Specific Heat (J/Kg-K) | Minimum of 1400 |
| 10 | Suitability for Application | High strength under Low temperature and high Vacuum conditions |