

Thermal Liners

| Liner Codes | Thermal Liner | Description | Working Weight ¹ | Thermal Insulation ² | Durability ³ | Comfort ⁴ | Total Heat Loss Range | Cost |
|-------------|--------------------------|--------------------------------|-----------------------------|---------------------------------|-------------------------|----------------------|-----------------------|---------|
| | Reprocessed Quilt | 8.0 oz/yd ² batt | ♦ | ♦♦ | ♦♦ | ♦ | ♦ | \$ |
| (D7 and D9) | Chambray Pure® | 7.0 oz/yd ² batt | ♦+ | ♦♦ | ♦♦♦ | ♦+ | ♦♦ | \$\$ |
| | Caldura® (Aralite® type) | 7.6 oz/yd ² batt | ♦+ | ♦♦ | ♦♦ | ♦♦ | ♦♦ | \$\$\$ |
| (J7 and J9) | Glide™ Pure | 7.5 oz/yd ² batt | ♦+ | ♦♦ | ♦♦+ | ♦♦+ | ♦♦ | \$\$\$ |
| | Caldura® SL | 7.6 oz/yd ² non-wov | ♦♦ | ♦+ | ♦♦ | ♦♦ | ♦♦♦♦ | \$\$\$ |
| (K6 and K7) | Glide™ 2L AraFlo® E89™ | 7.3 oz/yd ² non-wov | ♦♦♦ | ♦+ | ♦♦♦ | ♦♦♦♦ | ♦♦♦♦ | \$\$\$ |
| (C6 and C7) | Glide™ Center Cut | 7.0 oz/yd ² comb | ♦♦♦♦+ | ♦♦♦ | ♦♦♦ | ♦♦♦♦+ | ♦♦♦ | \$\$\$+ |
| (F6 and F7) | Shadowbox™ Center Cut | 7.2 oz/yd ² comb | ♦♦♦♦+ | ♦♦♦ | ♦♦♦ | ♦♦♦♦ | ♦♦♦ | \$\$\$+ |
| (X7) | Exhale SRS® | 7.5 oz/yd ² comb | ♦♦♦♦+ | ♦♦♦♦ | ♦♦♦ | ♦♦♦♦+ | ♦♦♦ | \$\$\$ |
| (G7) | co'motion™ | 7.7 oz/yd ² non-wov | ♦♦♦ | ♦♦ | ♦♦♦ | ♦♦♦♦ | ♦♦♦♦ | \$\$\$ |

1 Working weight = dry weight + moisture regain;
high ranking = low weight.
2 All around; wet, dry, high or low heat.

3 Insulation stability + face cloth durability.
4 Flexibility, bulk, friction resistance.

THL and TPP Test Results

| isodri® Composites | 7.0 oz. Fusion™ | | | 7.25 oz. PBI® Matrix | | | 7.0 oz. Advance® | | | 7.5 oz. Advance Ultra™ | | | 7.0 oz. Armor™ | | |
|---------------------------|-----------------|---------|---------|----------------------|---------|---------|------------------|---------|---------|------------------------|---------|---------|----------------|---------|---------|
| | THL | TPP B/W | TPP A/W | THL | TPP B/W | TPP A/W | THL | TPP B/W | TPP A/W | THL | TPP B/W | TPP A/W | THL | TPP B/W | TPP A/W |
| F6 Shadowbox™ Center Cut | 269.1 | 36.9 | 43.3 | 272.3 | 45.3 | 54.9 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| F7 Shadowbox™ Center Cut | 280.6 | 39.7 | 48.5 | 287.6 | 41.6 | 52.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| C6 Glide™ Center Cut | 268.4 | 42.2 | 55.3 | 265.4 | 44.6 | 52.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| C7 Glide™ Center Cut | 285.9 | 39.3 | 52.5 | 276.1 | 40.9 | 50.5 | 272.1 | 41.1 | 50.3 | 276.5 | 40.9 | 56.4 | N/A | N/A | N/A |
| K6 Glide™ 2L AraFlo® E89™ | 260.1 | 39.3 | 50.2 | 266.7 | 39.5 | 47.9 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| K7 Glide™ 2L AraFlo® E89™ | 267.2 | 36.6 | 48.2 | 268.8 | 39.9 | 47.7 | 269.1 | 43.3 | 49.8 | 268.2 | 41.7 | 53.4 | 264.3 | 40.3 | 55.3 |
| G7 co'motion™ | N/A | N/A | N/A | 235.4 | 36.9 | 48.2 | N/A | N/A | N/A | N/A | N/A | N/A | 227.3 | 38.1 | 53.4 |
| X7 Exhale SRS® | 240.8 | 51.7 | >60 | 224.4 | 48.8 | >60 | 244.6 | 50.8 | >60 | 236.9 | 51.7 | >60 | N/A | N/A | N/A |

| Non-isodri® Composites | 7.5 oz. Nomex® IIIA | | | 7.0 oz. Fusion™ | | | 7.25 oz. PBI® Matrix | | | 7.0 oz. Advance® | | | 7.5 oz. Advance Ultra™ | | | 7.0 oz. Armor™ | | |
|------------------------|---------------------|---------|---------|-----------------|---------|---------|----------------------|---------|---------|------------------|---------|---------|------------------------|---------|---------|----------------|---------|---------|
| | THL | TPP B/W | TPP A/W | THL | TPP B/W | TPP A/W | THL | TPP B/W | TPP A/W | THL | TPP B/W | TPP A/W | THL | TPP B/W | TPP A/W | THL | TPP B/W | TPP A/W |
| D7 Chambray Pure® | 259.1 | 37.6 | 51.4 | 254.2 | 39.0 | 51.8 | 257.6 | 38.8 | 48.5 | 245.4 | 38.3 | 54.4 | 234.0 | 39.5 | 53.7 | 241.9 | 41.8 | 53.2 |
| D9 Chambray Pure® | 244.8 | 40.2 | 53.8 | 239.2 | 39.6 | 51.2 | 227.6 | 38.7 | 49.1 | 249.3 | 40.1 | 55.2 | 225.0 | 39.9 | 58.5 | 233.5 | 42.3 | 54.2 |
| J7 Glide™ Pure | 248.4 | 36.8 | 47.2 | 232.9 | 40.2 | 52.1 | 266.5 | 39.7 | 46.2 | 248.1 | 39.7 | 50.3 | 237.7 | 39.6 | 52.5 | N/A | N/A | N/A |
| J9 Glide™ Pure | 243.9 | 42.6 | 49.1 | 232.1 | 41.0 | 51.8 | 230.8 | 41.2 | 49.9 | 233.4 | 42.9 | 54.6 | 222.8 | 41.1 | 56.5 | N/A | N/A | N/A |