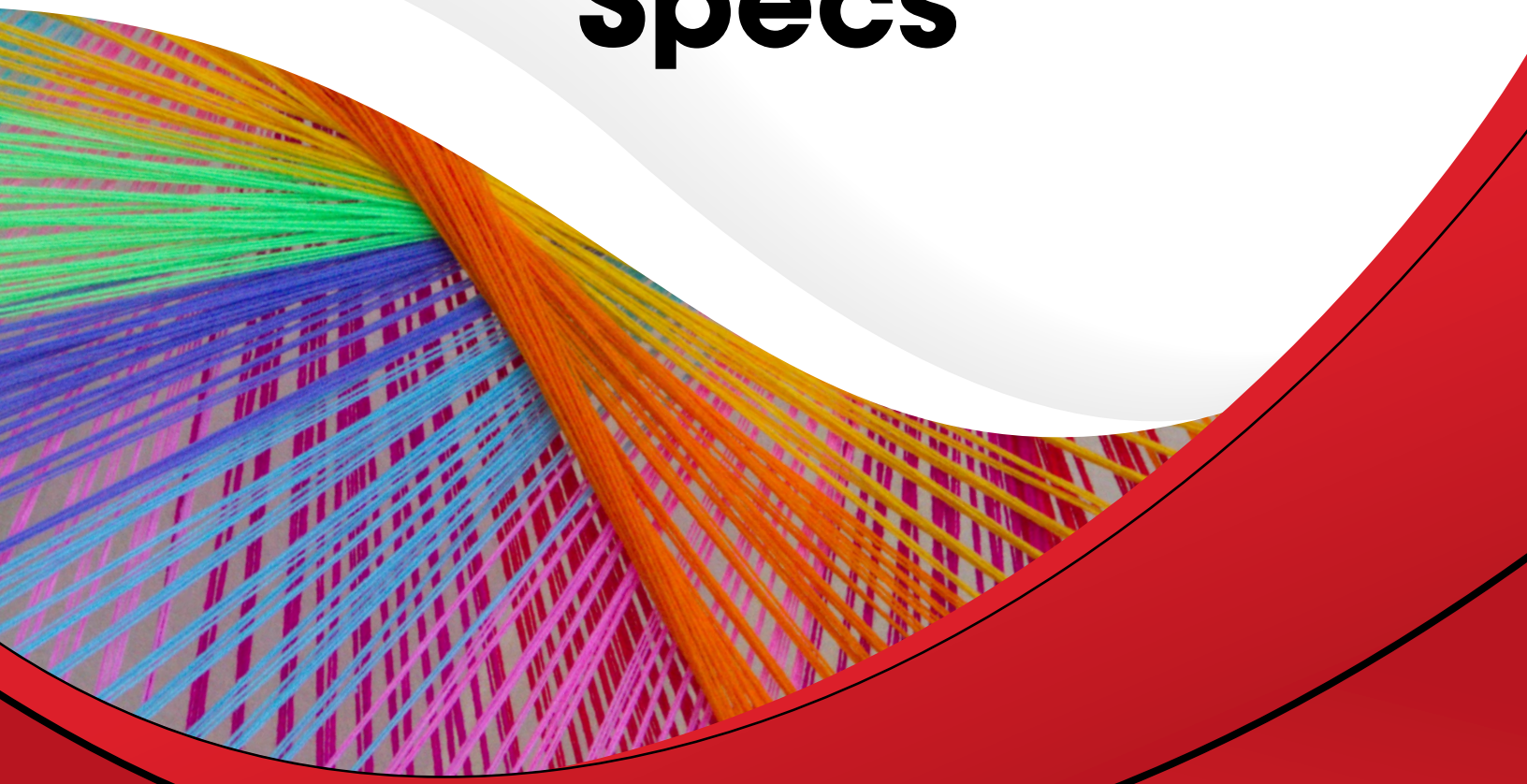
Champion Thread Company®

# Master Thread Specs



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ctc®

Champion Thread Company

**CHAMPION THREAD COMPANY®** **MASTER THEAD SPECIFICATIONS**

| Cotton ChampCore® | Tex Size | Single End Break (lbs) | Needle Size |
|---|---|---|---|
| *Pima Cotton Wrapped Polyester Corespun* | **T-24** | 2.2 | 75 / 11 |
| | **T-30** | 3.5 | 80 / 12 |
| | **T-40** | 4.5 | 90 / 14 |
| | **T-50** | 6.3 | 100 / 16 |
| | **T-60** | 6.5 | 110 /18 |
| | **T-80** | 9.5 | 120 / 19 |
| | **T-120** | 11.8 | 130 / 21 |
| **Poly ChampCore®** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *Polyester Wrapped Polyester Corespun* | **T-18** | 2.3 | 65 / 9 |
| | **T-24** | 3.4 | 75 / 11 |
| | **T-30** | 3.9 | 80 / 12 |
| | **T-40** | 5.0 | 90 / 14 |
| | **T-50** | 7.1 | 100 / 16 |
| | **T-60** | 7.6 | 110 / 18 |
| | **T-70** | 8.1 | 110 / 18 |
| | **T-80** | 8.9 | 120 / 19 |
| | **T-105** | 12.3 | 125 / 20 |
| | **T-120** | 12.9 | 130 / 21 |
| **ChampSpun®** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *High Tenacity Spun Polyester* | **T-16** | 1.3 | 65 / 9 |
| | **T-18** | 1.5 | 70 / 10 |
| | **T-21** | 1.7 | 70 / 10 |
| | **T-27** | 2.3 | 75 / 11 |
| | **T-30** | 2.8 | 80 / 12 |
| | **T-40** | 3.3 | 90 / 14 |
| | **T-50** | 4.3 | 100 / 16 |
| | **T-60** | 5.2 | 110 / 18 |
| | **T-70** | 5.9 | 110 / 18 |
| | **T-105** | 9.0 | 120 / 20 |
| | **T-135** | 14.2 | 140 / 22 |
| | **T-180** | 17.4 | 180 / 24 |
| | **T-240** | 23.0 | 200 / 25 |
| **ChampCot® Plus** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *100% Egyptian Long Staple Pima Cotton* | **T-21** | 1.4 | 70/10 |
| *Gassed & Mercerized* | **T-30** | 2.1 | 80/12 |
| | **T-60** | 4.1 | 110/18 |
| | **T-80** | 4.9 | 120/19 |
| **ChampLock®** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *Locked Filament Polyester* | **T-40** | 5.1 | 110/16 |
| | **T-60** | 7.2 | 110 / 18 |
| | **T-90** | 9.4 | 120 / 20 |
| **AeroTex® Plus** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *Textured Polyester* | **T-18** | 1.6 | 60 / 8 |
| | **T-24** | 2.1 | 65 / 9 |
| | **T-35** | 3.3 | 75 / 10 |
| | **T-50** | 5.1 | 90 / 14 |
| | **T-70** | 6.0 | 110 / 18 |
| | **T-105** | 8.9 | 140 /22 |

**CHAMPION THREAD COMPANY®** **MASTER THEAD SPECIFICATIONS**

| ChampTex® | Tex Size | Single End Break (lbs) | Needle Size |
|---|---|---|---|
| *Textured Nylon* | **T-16** | 1.6 | 65/9 |
| | **T-24** | 2.2 | 70/10 |
| | **T-30** | 3.2 | 75/11 |
| | **T-50** | 4.4 | 90/14 |
| | **T-70** | 5.7 | 100/16 |
| **ChampSecure® with Nomex®** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *Spun Meta-Aramid* | **T-27** | 1.6 | 75/11 |
| | **T-40** | 2.6 | 90/14 |
| | **T-60** | 3.9 | 100/16 |
| | **T-80** | 5.3 | 110/18 |
| | **T-90** | 6.5 | 125/20 |
| **ChampShield® w/Kevlar®** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *Spun Para-Aramid* | **T-40** | 6.3 | 100/16 |
| | **T-60** | 10.3 | 110/18 |
| | **T-80** | 14.0 | 110/18 |
| | **T-90** | 18.1 | 125/20 |
| | **T-105** | 21.8 | 130/21 |
| **Nylon ChampFil®** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *Continuous Filament Twisted Nylon* | **T-14** | 1.7 | 55/7 |
| | **T-16** | 2.2 | 65/7 |
| | **T-21** | 3.4 | 70/10 |
| | **T-45** | 7.4 | 90/14 |
| | **T-70** | 11.3 | 110/18 |
| | **T-90** | 15.2 | 125/20 |
| | **T-135** | 23.4 | 140/22 |
| | **T-210** | 34.8 | 160/24 |
| | **T-270** | 48.0 | 180/25 |
| | **T-350** | 53.0 | 230/26 |
| | **T-400** | 75.0 | 250/27 |
| | **T-600** | 95.5 | 280/28 |
| **Poly ChampFil®** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *Continuous Filament Twisted Polyester* | **T-21** | 3.4 | 65 / 9 |
| | **T-35** | 5.2 | 80 /12 |
| | **T-45** | 7.0 | 90 /14 |
| | **T-50** | 6.0 | 90/14 |
| | **T-70** | 10.5 | 100 /16 |
| | **T-90** | 13.3 | 120 / 20 |
| | **T-135** | 21.5 | 140 /22 |
| | **T-210** | 31.0 | 160 /23 |
| | **T-270** | 41.0 | 180 /24 |
| | **T-350** | 56.5 | 230 /26 |
| | **T-400** | 66.0 | 250 / 27 |
| | **T-600** | 88.0 | 280 / 28 |
| **SoftStitch®** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *Ultra-Soft Micro-Denier Polyester* | **T-18** | 1.5 | 65 / 9 |
| | **T-24** | 2.2 | 70 / 10 |
| | **T-35** | 3.1 | 75 /11 |

| ChampClear™ | Tex Size | Single End Break (lbs) | Needle Size |
|---|---|---|---|
| *Monofilament* | T-5 | 0.8 | 55/6 |
| | T-8 | 1.2 | 60/8 |
| | T-13 | 1.9 | 65/9 |
| | T-18 | 2.7 | 65/9 |
| | T-25 | 3.4 | 75/11 |
| | T-35 | 4.8 | 80/12 |
| | T-40 | 6.0 | 90/14 |
| | T-52 | 6.7 | 100/14 |
| | T-63 | 8.6 | 100/16 |
| | T-75 | 9.1 | 110/18 |
| **Nylon ThermaBond™** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *Twisted Nylon Bonded* | T-14 | 1.7 | 55/7 |
| | T-16 | 2.2 | 65/7 |
| | T-21 | 3.4 | 70/10 |
| | T-45 | 7.4 | 90/14 |
| | T-70 | 11.3 | 110/18 |
| | T-90 | 15.2 | 125/20 |
| | T-135 | 23.4 | 140/22 |
| | T-210 | 34.8 | 160/24 |
| | T-270 | 48.0 | 180/25 |
| | T-350 | 53.0 | 230/26 |
| | T-400 | 75.0 | 250/27 |
| | T-600 | 95.5 | 280/28 |
| **Poly ThermaBond™** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *Twisted Polyester Bonded* | T-21 | 3.4 | 65/9 |
| | T-35 | 5.2 | 80/12 |
| | T-45 | 7 | 90/14 |
| | T-70 | 10.5 | 100/16 |
| | T-90 | 13.3 | 120/20 |
| | T-135 | 21.5 | 140/22 |
| | T-210 | 31 | 160/23 |
| | T-270 | 41.0 | 180/24 |
| | T-350 | 56.5 | 230/26 |
| | T-400 | 66.0 | 250/27 |
| | T-600 | 88 | 280/28 |
| **Nylon UVex™** | **Tex Size** | **Single End Break (lbs)** | **Needle Size** |
| *Twisted Nylon UV-Protected* | T-45 | 7 | 90/14 |
| **Poly UVex™** | T-70 | 10.5 | 100/16 |
| *Twisted Polyester UV-Protected* | T-90 | 13.3 | 120/20 |
| | T-135 | 21.5 | 140/22 |
| | T-210 | 31 | 160/23 |
| | T-270 | 41.0 | 180/24 |
| | T-350 | 56.5 | 230/26 |
| | T-400 | 66.0 | 250/27 |
| | T-600 | 88 | 280/28 |