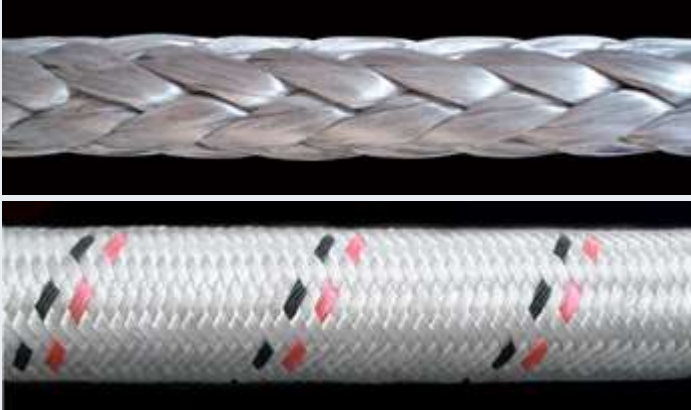


## Steelite and Steelite Xtra

Ropes are manufactured from the revolutionary HMPE high modulus polyethylene fibre. This new strong fibre is produced using a new process called gel spinning. Weight for weight HMPE fibre is the strongest on the market, being ten times stronger than steel and 40% stronger than aramid.

HMPE fibre is available in three qualities:

- Steelite
- Steelite Xtra
- low creep (on request)



- Superior strength/mass ratio
- Easy to handle and splice
- Low weight and stretch
- Exceptional flex fatigue life
- No shrinkage when wet - no water absorption
- Full buoyancy (Steelite 12 and 12-Xtra)
- Excellent abrasion resistance due to large surface area for reduced strand wear

## Construction

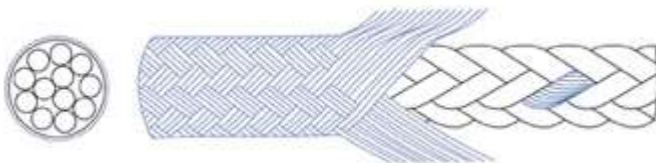
### Steelite 12 and 12-Xtra

- 12-strand plaited construction (torque free)
- Superthane coated for higher abrasion resistance



### Superline

- Circular braided protective cover over central core
- Core types:
- An assembly of parallel "S" and "Z" twisted 3-strand ropes (torque free) or a 12-strand plaited rope (torque free) or a 6-strand cable laid rope



## Properties

|                               |                                                                                                            |
|-------------------------------|------------------------------------------------------------------------------------------------------------|
| <i>Relative density</i>       | Steelite 12 and 12-Xtra: 0,97<br>Superline: will vary from 0,97 to 1,15 depending on protective cover type |
| <i>Temperature resistance</i> | Melting point 150°C                                                                                        |
| <i>UV resistance</i>          | Excellent - fully stabilised                                                                               |
| <i>Extension</i>              | 4,5% at break (new rope)<br>reduces to 2% (worked rope)                                                    |

|                            |                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------|
| <b>Flexibility</b>         | Lightweight and flexible<br>Good shape retention<br>Fibres do not absorb water            |
| <b>Chemical resistance</b> | Steelite 12 en 12-Xtra excellent<br>Superline with polyester cover, restricted to alkalis |

Length measured under reference tension according to ISO 9554. Minimum breaking load measured according to ISO 2307. Spliced ropes will on average have 10% lower minimum breaking load. Figures and information are for guidance purpose only.

## Typical applications

Winch lines - mooring lines - tow lines - tug assist lines - deep water lift lines - pipe pull lines - wire rope replacements - heavy duty slings - fishing lines - oceanographic cables - submerge turret lift ropes - tethers (specific information on request)

## STEELITE 12 and 12-xtra Superthane Coated

| Diam. Ø | Mass    | STEELITE 12        |      | STEELITE 12 XTRA   |      |
|---------|---------|--------------------|------|--------------------|------|
|         |         | Min. breaking load |      | Min. breaking load |      |
| mm      | kg/100m | T                  | kN   | T                  | kN   |
| 28      | 37,5    | 57,7               | 566  | 67,9               | 666  |
| 32      | 50,1    | 75,4               | 740  | 88,7               | 870  |
| 36      | 62,5    | 92                 | 903  | 108                | 1059 |
| 40      | 75,0    | 108                | 1059 | 128                | 1256 |
| 44      | 87,1    | 127                | 1246 | 146                | 1432 |
| 48      | 104     | 147                | 1442 | 169                | 1658 |
| 52      | 116     | 164                | 1609 | 189                | 1854 |
| 56      | 142     | 193                | 1893 | 222                | 2178 |
| 60      | 158     | 210                | 2060 | 242                | 2374 |
| 64      | 174     | 237                | 2325 | 273                | 2678 |
| 68      | 199     | 262                | 2570 | 301                | 2953 |
| 72      | 224     | 297                | 2914 | 342                | 3355 |
| 76      | 249     | 330                | 3237 | 380                | 3728 |
| 80      | 274     | 361                | 3541 | 415                | 4071 |

## Superline Steelite and Superline Steelite Xtra

| Diam. Ø | Mass    | Superline Steelite |      | Superline Steelite Xtra |      |
|---------|---------|--------------------|------|-------------------------|------|
|         |         | Min. breaking load |      | Min. breaking load      |      |
| mm      | kg/100m | T                  | kN   | T                       | kN   |
| 28      | 45,8    | 47,5               | 466  | 62                      | 608  |
| 30      | 47,7    | 51,3               | 503  | 67                      | 657  |
| 32      | 67,1    | 60,4               | 593  | 70                      | 687  |
| 34      | 73      | 68,7               | 674  | 83                      | 814  |
| 36      | 77,4    | 73,6               | 722  | 93                      | 912  |
| 40      | 87,3    | 90                 | 883  | 113                     | 1109 |
| 44      | 104     | 107                | 1050 | 134                     | 1315 |
| 48      | 138     | 126                | 1236 | 164                     | 1609 |
| 52      | 173     | 147                | 1442 | 194                     | 1903 |
| 56      | 190     | 169                | 1658 | 228                     | 2237 |
| 60      | 208     | 193                | 1893 | 262                     | 2570 |
| 64      | 245     | 243                | 2384 | 307                     | 3012 |
| 68      | 266     | 269                | 2639 | 343                     | 3365 |
| 72      | 285     | 302                | 2963 | 379                     | 3718 |
| 76      | 316     | 340                | 3335 | 427                     | 4189 |
| 80      | 334     | 373                | 3659 | 456                     | 4473 |

|     |     |     |      |     |      |
|-----|-----|-----|------|-----|------|
| 88  | 424 | 453 | 4444 | 538 | 5278 |
| 96  | 492 | 533 | 5229 | 625 | 6131 |
| 104 | 601 | 626 | 6141 | 743 | 7289 |
| 112 | 701 | 733 | 7191 | 831 | 8152 |
| 120 | 918 | 839 | 8231 | 953 | 9349 |

## Load VS Extension

