



Acera™ Nansen is made from Acera™ genuine HMPE yarns, and has earned a DNV GL type approval. Nansen is the result of a unique 8-strand, back-twisted rope construction process. It is produced from 8 reels in groups of two strands, revolving around each other in pairs to form the 8 strand plaited construction.

Our unique back-twisting process ensures identical strands, independent of left or right direction. The result is a more stabilized rope with a higher realization factor – providing a better weight-to-strength ratio. This Acera™ yarn is individually coated through a rotating 360° Lick-roller process. This cumbersome single yarn coating process demonstrates the uncompromising commitment to the quality standards of Acera™. Single yarn coating is proven to significantly enhance internal and external abrasion resistance, and extend service life and strength. Available in very long lengths and very high diameters. Acera™ Nansen is an alternative to the cumbersome steel wire ropes. It is stronger and safer, with significantly less snap-back/recoil. The corresponding weight is 7 times lower. Acera Nansen is the basis for heavy duty lifting slings (i.e. subsea lifting of over 1100 tonnes breaking strength or subsea pull-in ropes).

### SUITABLE



**Fishery**



**Lifting**



**Mooring**



**Offshore**



**Towing**

### PRODUCT FEATURES

|                                  |                           |
|----------------------------------|---------------------------|
| <b>Construction</b>              | 8-strand plaited          |
| <b>Fiber</b>                     | Acera HMPE                |
| <b>Specific gravity</b>          | 0,97 (floating)           |
| <b>Colours</b>                   | Platinum                  |
| <b>UV resistance</b>             | Excelent                  |
| <b>Abbrasion resistance</b>      | Excelent                  |
| <b>Acid resistance</b>           | Excelent                  |
| <b>Alkali resitance</b>          | Excelent                  |
| <b>Most chemicals resistance</b> | Excelent                  |
| <b>Water resistance</b>          | Excellent (0% absorption) |
| <b>Heat resistance</b>           | Low (145-150 melting)     |
| <b>Elongation</b>                | Low (2-3% at break)       |

### KEY BENEFITS

- Single yarn coating, extended service life
- Available in very long lengths
- Available in very high diameters
- Easy to inspect
- Easier to repair
- Very easy to splice
- Ease of handling
- Flexible

### CERTIFICATE



| diameter<br>DIA.<br>(mm) | MBL spliced<br>(t) | MBL spliced<br>(kN) | MBL unspliced<br>(t) | MBL unspliced<br>(kN) | diameter<br>DIA.<br>(inch) | MBL spliced<br>(lbs) | MBL unspliced<br>(lbs) |
|--------------------------|--------------------|---------------------|----------------------|-----------------------|----------------------------|----------------------|------------------------|
| 24                       | 47.9               | 470                 | 53                   | 520                   | 1"                         | 105.210              | 116.900                |
| 26                       | 55.1               | 540                 | 61.2                 | 600                   | 1.1/16"                    | 121.397              | 134.885                |
| 28                       | 62.7               | 615                 | 69.9                 | 685                   | 1.1/8"                     | 138.594              | 153.994                |
| 30                       | 71.4               | 700                 | 79                   | 775                   | 1.1/4"                     | 156.804              | 174.227                |
| 32                       | 79.5               | 780                 | 88.2                 | 865                   | 1.5/16"                    | 175.013              | 194.459                |
| 34                       | 88.7               | 870                 | 98.4                 | 965                   | 1.3/8"                     | 195.246              | 216.940                |
| 36                       | 98.4               | 965                 | 109.1                | 1070                  | 1.1/2"                     | 216.490              | 240.545                |
| 38                       | 108                | 1060                | 119.8                | 1175                  | 1.9/16"                    | 237.735              | 264.150                |
| 40                       | 117.8              | 1155                | 131                  | 1285                  | 1.5/8"                     | 259.991              | 288.879                |
| 44                       | 140.2              | 1375                | 155.5                | 1525                  | 1.3/4"                     | 308.550              | 342.833                |
| 48                       | 163.2              | 1600                | 181                  | 1775                  | 2"                         | 359.131              | 399.035                |
| 52                       | 187.6              | 1840                | 208.5                | 2045                  | 2.1/8"                     | 413.760              | 459.733                |
| 56                       | 213.6              | 2095                | 237.6                | 2330                  | 2.1/4"                     | 471.423              | 523.804                |
| 60                       | 241.7              | 2370                | 268.7                | 2635                  | 2.1/2"                     | 533.133              | 592.370                |
| 64                       | 270.7              | 2655                | 300.8                | 2950                  | 2.5/8"                     | 596.866              | 663.185                |
| 68                       | 301.3              | 2955                | 335                  | 3285                  | 2.3/4"                     | 664.646              | 738.496                |
| 72                       | 333.4              | 3270                | 370.7                | 3635                  | 3"                         | 735.461              | 817.179                |
| 76                       | 367.1              | 3600                | 407.9                | 4000                  | 3.1/8"                     | 809.310              | 899.234                |
| 80                       | 401.8              | 3940                | 446.1                | 4375                  | 3.1/4"                     | 885.183              | 983.537                |
| 88                       | 475.2              | 4660                | 528.2                | 5180                  | 3.5/8"                     | 1.048.048            | 1.168.994              |
| 96                       | 554.2              | 5435                | 615.9                | 6040                  | 4"                         | 1.222.048            | 1.357.831              |
| 100                      | 596                | 5845                | 662.3                | 6495                  | 4.1/16"                    | 1.314.106            | 1.460.118              |
| 102                      | 617.1              | 6052                | 685.7                | 6724                  | 4.1/8"                     | 1.360.439            | 1.511.599              |
| 104                      | 638.9              | 6265                | 709.7                | 6960                  | 4.1/4"                     | 1.408.188            | 1.564.653              |
| 108                      | 682.7              | 6695                | 758.7                | 7440                  | 4.1/2"                     | 1.505.304            | 1.672.560              |