














Barras roscadas SAS SAS thread bars

| Límite elástico / Límite de rotura <i>yield stress / ultimate stress</i> Áreas de aplicación <i>areas of application</i> | ø-nominal <i>nom.-ø</i> | Carga elástica <i>yield load</i> | Carga de rotura <i>ultimate load</i> | Superficie <i>cross section area</i> | | Peso <i>weight</i> | Elongación <i>elongation</i> | | | |
|---|--|--|---|---|--------|-----------------------|---------------------------------|----------------------|------|---|
| | [mm] | [kN] | [kN] | [mm ²] | [m/to] | [kg/m] | A _{gt} [%] | A ₁₀ [%] | | |
| SAS 500 / 550 - grade 75 | | | | | | | | | | |
|  Sistemas de refuerzo / <i>reinforcing systems</i> | 12 | 57 | 62 | 113 | 1123,6 | 0,89 | 6 | 10 | | |
| | 14 | 77 | 85 | 154 | 826,4 | 1,21 | | | | |
| | 16 | 100 | 110 | 201 | 632,9 | 1,58 | | | | |
| | 20 | 160 | 175 | 314 | 404,9 | 2,47 | | | | |
| | 25 | 245 | 270 | 491 | 259,7 | 3,85 | | | | |
| |  Geotecnia / <i>geotechnical systems</i> | 28 | 310 | 340 | 616 | 207,0 | | | 4,83 | |
| | | 32 | 405 | 440 | 804 | 158,5 | | | 6,31 | |
| | | 40 | 630 | 690 | 1260 | 101,3 | | | 9,87 | |
| 50 | | 980 | 1080 | 1960 | 64,9 | 15,40 | | | | |
| SAS 555 / 700 - grade 80 | 57,5 | 1441 | 1818 | 2597 | 49,1 | 20,38 | 5 | nuevo | | |
| SAS 555 / 700 - grade 80 | 63,5 | 1760 | 2215 | 3167 | 40,2 | 24,86 | 5 | | | |
| SAS 500 / 550 - grade 75 | 75 | 2209 | 2430 | 4418 | 28,8 | 34,68 | 5 | nuevo | | |
| Disponible de manera alternativa SAS 550 / <i>alternative SAS 550 grade 75 available</i> | | | | | | | | | | |
| SAS 450 / 700 - grade 60 | | | | | | | | | | |
|  Minería / <i>mining</i> | 16 | 93 | 145 | 207 | 617,3 | 1,62 | | (A ₂) 15 | | |
| | 25 | 220 | 345 | 491 | 259,7 | 3,85 | | (A ₂) 20 | | |
| SAS 650 / 800 - grade 90 | | | | | | | | | | |
|  Minería / <i>mining</i> | 22 | 247 | 304 | 380 | 335,6 | 2,98 | | (A ₂) 18 | | |
| | 25 | 319 | 393 | 491 | 259,7 | 3,85 | | | | |
| | 28 | 400 | 493 | 616 | 207,0 | 4,83 | | | | |
| | 30 | 460 | 565 | 707 | 180,2 | 5,55 | | | | |
| SAS 670 / 800 - grade 97 | | | | | | | | | | |
|  Geotecnia / <i>geotechnical systems</i> | 18 | 170 | 204 | 254 | 500,0 | 2,00 | 5 | 10 | | |
| | 22 | 255 | 304 | 380 | 335,6 | 2,98 | | | | |
| | 25 | 329 | 393 | 491 | 259,7 | 3,85 | | | | |
| | 28 | 413 | 493 | 616 | 207,0 | 4,83 | | | | |
|  Túneles & minería / <i>tunneling & mining</i> | 30 | 474 | 565 | 707 | 180,2 | 5,55 | | | | |
| | 35 | 645 | 770 | 962 | 132,5 | 7,55 | | | | |
| | 43 | 973 | 1162 | 1452 | 87,7 | 11,40 | | | | |
|  Sistemas de armadura de alta resistencia / <i>high-strength reinforcement</i> | 50 | 1315 | 1570 | 1963 | 64,9 | 15,40 | | | | |
| | 57,5 | 1740 | 2077 | 2597 | 49,1 | 20,38 | | | | |
| | 63,5 | 2122 | 2534 | 3167 | 40,2 | 24,86 | | | | |
| | 75 | 2960 | 3535 | 4418 | 28,8 | 34,68 | | | | |
| SAS 950 / 1050 - grade 150 | | | | | | | | | | |
|  Sistemas de pos-tensado / <i>post-tensioning systems</i> | 18 | 230 | 255 | 241 | 510,2 | 1,96 | 5 | 7 | | |
| | 26,5 | 525 | 580 | 551 | 223,2 | 4,48 | | | | |
| | 32 | 760 | 845 | 804 | 153,1 | 6,53 | | | | |
| | 36 | 960 | 1070 | 1020 | 120,9 | 8,27 | | | | |
|  Geotecnia / <i>geotechnical systems</i> | 40 | 1190 | 1320 | 1257 | 97,9 | 10,21 | | | | |
| | 47 | 1650 | 1820 | 1735 | 70,9 | 14,10 | | | | |
| SAS 835 / 1035 - grade 150 | | | | | | | | | | |
|  Geotecnia / <i>geotechnical systems</i> | 57 | 2155 | 2671 | 2581 | 47,7 | 20,95 | | | 4 | 7 |
| | 65 | 2780 | 3447 | 3331 | 36,9 | 27,10 | | | | |
| | 75 | 3690 | 4572 | 4418 | 27,9 | 35,90 | | | | |
| SAS 900 / 1100 FA - grade 160 FA | | | | | | | | | | |
|  Sistemas de encofrado / <i>formwork ties</i> | 15 | 159 | 195 | 177 | 694,4 | 1,44 | 3 | 7 | | |
| | 20 | 283 | 345 | 314 | 390,6 | 2,56 | | | | |
| | 26,5 | 495 | 606 | 551 | 223,2 | 4,48 | | | | |
| SAS 900 / 1050 FC - grade 150 FC | | | | | | | | | | |
|  Sistemas de encofrado / <i>formwork ties</i> | 15 | 159 | 186 | 177 | 694,4 | 1,44 | 3 | 7 | | |
| | 20 | 283 | 330 | 314 | 390,6 | 2,56 | | | | |
| | 26,5 | 495 | 606 | 551 | 223,2 | 4,48 | | | | |
| SAS 950 / 1050 E - grade 150 | 26,5 | 525 | 580 | 551 | 223,2 | 4,48 | 5 | 7 | | |
| SAS 750 / 875 FS - laminado en frío / cold rolled - grade 120 FS | | | | | | | | | | |
|  Sistemas de encofrado / <i>formwork ties</i> | 12,5 | 90 | 120 | 132,5 | 961,5 | 1,04 | 2 | 5,5 | | |
| | 15 | 142 | 165 | 189 | 675,7 | 1,48 | | | | |
| | 20 | 245 | 285 | 326 | 390,6 | 2,56 | | | | |

Se suministran accesorios para todas las dimensiones y aplicaciones / *accessories for all dimensions and applications available*