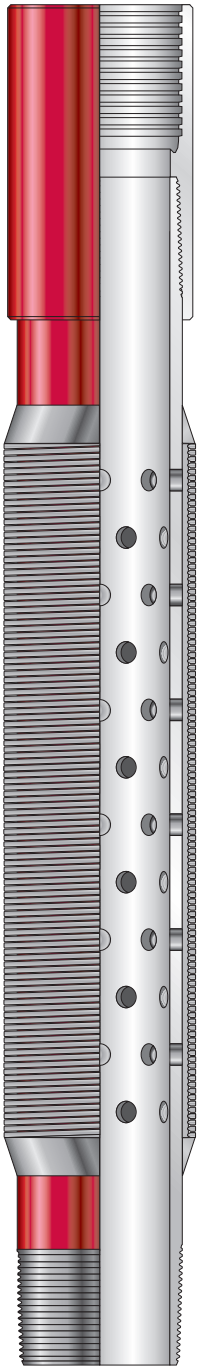
# *Ultra-Grip™ Screens*



Weatherford's *Ultra-Grip* screens are the most highly evolved wrapped-on-pipe screens, with lineage going back to Weatherford's invention of the shrink-fit manufacturing process 25 years ago. These screens are built for excellent mechanical strength to perform in the most demanding openhole and cased-hole environments.

## *Applications*

- Openhole and cased-hole completions with high-pump rates and pressures
- Openhole, standalone completions in well-sorted, homogeneous reservoirs
- Horizontal and extended-reach wells
- Thermal/steam-injection wells

## *Features, Advantages and Benefits*

- Patented *Ultra-Grip* manufacturing process shrink-fits the screen to the pipe to provide greatly improved tensile, torque, and collapse strength over conventional slip-on screens.
- Profile surface wire is heat-resistant welded to a series of shaped support rods directly on the perforated base pipe.
- Heavy-duty surface wire provides greater erosion resistance, increased mechanical strength and longer life in the most demanding environments.
  - Original keystone-shaped wire configuration for maximal nonclogging, self-cleaning, and free flow of materials.
  - House-shaped wire for increased flow area and greater erosion resistance.
- Shaped rods and shaped wrap wire provide superior weld-to-weld strength.
- High-precision slot tolerances and precision-formed, application-specific wire profiles provide optimal exclusion of formation materials while maximizing production of hydrocarbons.
- *Ultra-Grip* screens are available in a wide selection of stainless steel and high-nickel alloys for optimum customization to the application.
- *Ultra-Grip* screens are easily retrievable, even in the most rigorous fishing operations.

# *Ultra-Grip™ Screens*

## *Specifications*

| Base Pipe | | | End Ring | Screen | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Size (in.) | Weight (lb/ft) | ID (in./*mm*) | OD (in./*mm*) | OD (in./*mm*) | Weight (lb/ft) | Tensile Strength[1] (lbf/*kN*) | Maximum Bend Angle[2] (°/100 ft) | Burst Resistance (psi/*MPa*) | Collapse Resistance (psi/*MPa*) |
| 3-1/2 | 9.2 | 2.99<br>*76.07* | 4.01<br>*101.85* | 3.88<br>*98.55* | 12.6 | 88,690<br>*395* | 86 | 3,500<br>*24.14* | 4,800<br>*33.10* |
| 4 | 9.5 | 3.55<br>*90.17* | 4.51<br>*114.55* | 4.38<br>*111.25* | 12.9 | 182,210<br>*811* | 75 | 3,400<br>*23.45* | 4,600<br>*31.72* |
| 4-1/2 | 11.6 | 4.00<br>*101.60* | 5.01<br>*127.25* | 4.88<br>*123.95* | 15.0 | 226,980<br>*1,010* | 67 | 3,200<br>*22.07* | 4,400<br>*30.34* |
| 5 | 15.0 | 4.41<br>*111.96* | 5.51<br>*139.95* | 5.38<br>*136.65* | 18.4 | 297,450<br>*1,323* | 60 | 3,000<br>*20.69* | 4,200<br>*28.96* |
| 5-1/2 | 17.0 | 4.89<br>*124.26* | 6.01<br>*152.65* | 5.88<br>*149.35* | 19.4 | 337,440<br>*1,501* | 54 | 2,800<br>*19.31* | 4,400<br>*27.59* |
| 6-5/8 | 24.0 | 5.92<br>*150.37* | 7.13<br>*181.10* | 7.00<br>*177.80* | 27.4 | 472,340<br>*2,101* | 45 | 2,650<br>*18.27* | 3,800<br>*26.21* |
| 7 | 26.0 | 6.276<br>*159.41* | 7.51<br>*190.75* | 7.38<br>*187.45* | 29.4 | 513,340<br>*2,283* | 43 | 2,500<br>*17.27* | 3,700<br>*25.52* |

[1]Screen tensile strength is based on entire screen assembly.
[2]Maximum bend angle for screen is based on L80 pipe.

**Notes:**
Maximum dogleg severity is 50% of bend angle.
All values are based on 316L screen jackets.
Collapse and burst resistance are based on tests using ISO 17824 sand-screen test procedures.
All OD dimensions are maximum, based on nominal API pipe dimensions.
All values are nominal, except for the above noted OD dimensions.