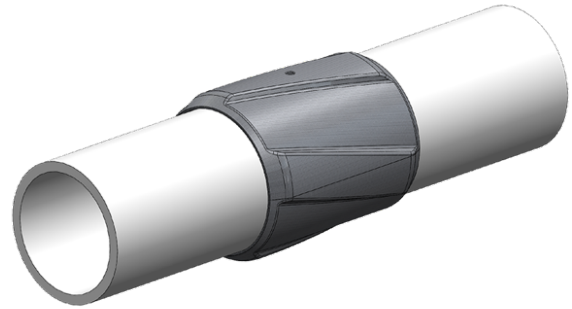


## Max-Lock – Composite Centralizer

The Max-Lock is a two-piece, low friction and abrasion resistant, all composite tubing centralizer. The part is locked in place, axially and radially, by injecting a modified structural epoxy system into a profiled cavity between part and customer tubular, thereby eliminating the need for stop collars or grub screws.

The system is field proven in some of the worlds most challenging downhole environments.



**Max-Lock Shell:** Proprietary carbon fiber composite with low friction, low wear Kevlar ceramic surface layer.

**Pipebond:** Structural highly modified two-component epoxy system bonding agent, supplied in easy to use cartridges with static mixer nozzle.

### System Properties

Technical Value	Metric Units	U.S. Units
Shear Resistance – Push test one Max-Lock	> 65180 Kgs	> 144782 Lbs
Compression Resistance	> 214 Mpa	> 31886 Psi
Adhesion Strength	> 40 Mpa	> 5900 Psi
Anchor Profile For Sand Blast	40 Microns	1.6 Mils
Temperature Resistance	180°C (Higher Resistance with Post Cure)	356°F (Higher Resistance with Post Cure)
Abrasion Resistance Tabor CS 17	< 1 Mg Loss	
Impact Resistance – 10m Drop Ball	> 112 J	
Abrasion Resistance 100Kg 1Hr	Max-Lock weight loss 1.12 g (Steel weight loss under same parameter 2.4 g)	
Friction Coefficient WBM	<0.08 Steel / <0.15 Sandstone	
100° C Water Resistance	Weight Gain after 1 Hour < 0.02%	
Hardness (Shore D)	90	

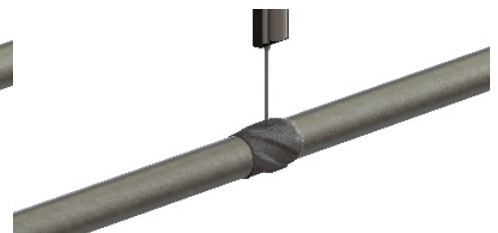
### Installation & Handling



- Step 1 – Prepare Pipe Surface
- Mechanical or Blast
  - Minimum Anchor Profile 40 µm



- Step 2 – Install parts over pipe
- Apply Spacer & Vacuum Sealing Tape
  - Insert tubes into entry & exit ports



- Step 3 – Vacuum Inject bonding agent

**Site based Installation - Carried out by Maxwell qualified personnel.**

**Storage - Bonding Agent should be kept sealed in their original cartridges when not in use, and stored in a cool, dry place (0°C - 40°C).**

#### Maxwell Oil Tools

Via Alessandro Fortis, 4 - 48123 Ravenna

☎ +39 0544 453526

✉ +39 0544 455558

✉ info@maxwelloiltools.com

🌐 [www.maxwelloiltools.com](http://www.maxwelloiltools.com)

