

Millennium™ II Perforating Shaped Charges

7 Inch 12 SPF Deep Penetrating

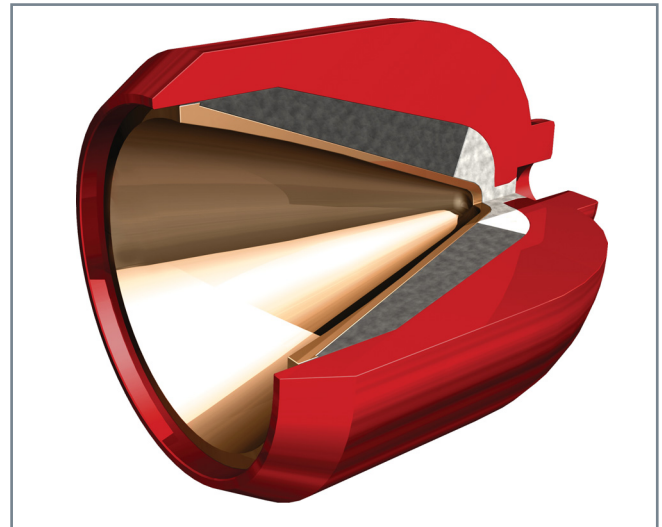
Millennium™ II perforating charges represent Halliburton’s newest family of shaped charges, exemplifying the company’s reputation for unmatched jet perforating capabilities. Millennium II charges consistently provide superior performance for establishing reservoir connectivity.

Operators choosing Millennium II charges can obtain reliable downhole performance when selecting a perforating system for 9 5/8” casing or larger. Halliburton uses scientific expertise and technological innovation in its shaped charge manufacturing methods. Rigorous quality control processes are followed to help ensure each charge operates as designed without degradation. Millennium II charges use a patented twist-lock feature within the charge and charge tube holder, which eliminates additional debris from bend tabs.

Millennium II charges represent the ideal deep penetrating charge for operators who want results.

Applications

- Natural well completions
- Pre-stimulation perforating
- Disposal and injector wells
- Well recompletion



Proprietary liner composition and redesigned geometry help improve overall performance

Benefits

- Penetrate past near-wellbore damage
- Potentially intersect more natural fractures
- Produce or stimulate with an excellent flow area
- Rely on a dependable, single line of shaped charges
- Eliminate additional debris from traditional bend tabs
- Easily integrate with complementary Halliburton services

API Performance Data

			Section I				Section V
Charge	Explosive Type	Gun Type	Maximum Shot Density (ft)	Explosive Mass	Penetration	Exit Hole Diameter	Gun System Debris (ft)
4-5/8" Millennium II	HMX	HSC	12	39 gram	44.3"	.41"	89cc, 407gm

For more information on our Millennium™ II Perforating Shaped Charges, contact your local Halliburton Wireline and Perforating Services representative or visit us on the web at www.halliburton.com/wireline

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