The Perfecta® family is Hunting Titan’s latest generation of shaped charges that have been engineered to provide superior performance in all types of formations.

The Perfecta Super Deep Penetrating (SDP) series offers unbeatable penetration when compared to conventional shaped charges while maintaining excellent hole diameter. These large holes assure greater tunnel volume beyond the damaged zone allowing for enhanced flow and productivity.

Perfecta Good Hole (GH) charges are unique in that they offer a perfect balance between larger hole diameter while retaining very good penetration. This kind of penetration is ideally suited for fracturing operations where hole size needs to be large enough for proppant flow, yet deep enough to go beyond the damaged zone to allow for lower break down pressures.

Perfecta Big Hole (BH) charges produce the maximum hole diameter and area of flow while keeping an effective penetration, perfect for gravel pack or frac pack operations.

InnovatIon
Through years of research, development and experience, Hunting Titan has proven itself to be the industry leader in shaped charge design and manufacturing. Utilizing the latest technology and innovative design, the Perfecta family of charges have increased in penetration performance up to 43% and entrance hole diameters by 39% compared to shaped charges designed a decade ago.

APPLICATIONS
• Natural flowing and stimulated wells
• Sand control and gravel-pack completions
• Production and injection wells
• Damaged formations
• All reservoir types
• All fluid types (oil, water, gas)

BENEFITS
• Improves well performance
• Capable of lowering skin factors allowing improved production in fractures
• Helps reduce fracture break-down pressures
• Potential reduction in weak sand production
• No incremental cost required to upgrade existing hardware

FEATURES
• Wide variety of charges to meet specific needs
• Super deep penetrating charges perforate beyond the damaged zone
• Greater formation contact created by bigger holes
• Big hole charges optimized for gravel pack
• Compatible and best used with all existing Hunting Titan wireline and TCP perforating systems
• Can be deployed using all conveyance methods
• Available with RDX, HMX and HNS applications
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Utilizing knowledge and experience, Perf/¢s innovative charge designs translate to a new level of deeper penetration and larger hole size. All Hunting Titan gun systems are designed to remove debris and lower gun swell.

API RP-19B Performance

<table>
<thead>
<tr>
<th>Gun OD (in)</th>
<th>Charge Weight (g)</th>
<th>Enterance Penetration (spf)</th>
<th>Exit Penetration (spm)</th>
<th>Strain (lb/ft)</th>
<th>Weight (kg/m)</th>
<th>Travel (mm)</th>
<th>Recommended Use</th>
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<tbody>
<tr>
<td>4, 0°</td>
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<td>4, 0°</td>
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<td>4.92</td>
<td>1.78</td>
<td>4-1/2</td>
<td>11.6</td>
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<tr>
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<td>6,800</td>
<td>5.75</td>
<td>2.25</td>
<td>2-7/8</td>
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<td>6.70</td>
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<td>5.90</td>
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<td>5.30</td>
<td>3.58</td>
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<tr>
<td>6, 60°</td>
<td>6,320</td>
<td>5.30</td>
<td>3.58</td>
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<td>5.48</td>
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Note: All charges available with RDX, HMX and HNS. Table displays charges that have been API RP-19B certified

As part of a stringent design process, all Hunting Titan gun systems are designed to ensure superior charge performance while retaining gun survivability. Check with your local Hunting Titan distributor or GunFact™ data sheets for test results.

Packaging is designed to withstand the tough off-loaded handling, transportation and storage. This results in the outstanding performance expected by Perf/¢.

Perfectly shaped charges are designed and optimized in a combination of materials that combine to soft, medium and hard rock. Tests are also performed under stressed conditions. All this translates to shaped charges designed to perform well in rock under down-hole conditions.

Perfect liner designs focus energy to portions of the rock that increase penetration, while minimizing wasted energy that is not helpful downhole. This results in cleaner, more effective perforations.

DESIGN

MANUFACTURING


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