HYPERfecta Shaped Charges
Titan Division | Energetics

HYPERfecta

High performance at ultra-high temperatures.

Hunting’s HYPERfecta shaped charges use HSX explosive technology to out-perform HNS charges at ultra-high temperatures.

Benefits
- Superior performance compared to HNS
- Higher Temperature rating than HMX
- More cost effective than HNS
- Deep penetration at temperature
- Improves well performance

API Charge Data

<table>
<thead>
<tr>
<th>Gun OD (in)[mm]</th>
<th>Charge Part Number†</th>
<th>Explosive Powder</th>
<th>Explosive Weight (g)</th>
<th>Shot Density (spf)[spm], Phasing</th>
<th>Entrance Hole (in)[mm]</th>
<th>Penetration (in)[cm]</th>
<th>Burr Height (in)[cm]</th>
<th>Casing Size (in)[mm]</th>
<th>Casing Weight (lb/ft)[kg/m]</th>
<th>Target Strength (psi)[MPa]</th>
<th>Recommended Min. I.D. (in)[mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 [51]</td>
<td>EXP-2008-721TB HSX</td>
<td>8.0  6[20], 60°</td>
<td>0.32 [8.1]</td>
<td>18.57 [47.17]</td>
<td>0.03 [0.08]</td>
<td>3-1/2 [88.9]</td>
<td>9.2 [13.7]</td>
<td>9,288 [64.0]</td>
<td>2.25 [57]</td>
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<tr>
<td>3-3/8 [86]</td>
<td>EXP-3327-721TB HSX</td>
<td>26.5 6[20], 60°</td>
<td>0.34 [8.6]</td>
<td>39.01 [99.09]</td>
<td>0.03 [0.08]</td>
<td>5-1/2 [140]</td>
<td>17 [25.3]</td>
<td>6,318 [43.5]</td>
<td>3.80 [97]</td>
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<tr>
<td>4-1/2 [114]</td>
<td>EXP-4542-721TB HSX</td>
<td>41.5 5 [16], 60°</td>
<td>0.42 [11]</td>
<td>46.92 [119.18]</td>
<td>0.03 [0.08]</td>
<td>7 [178]</td>
<td>32 [47.6]</td>
<td>5,717 [39.4]</td>
<td>4.92 [125]</td>
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