



## Approved Engine Sealants for Isuzu Diesel Engines

The AERA Technical Committee offers the following information on Isuzu diesel engine approved sealants to use during engine assembly. This information should be considered anytime partial or complete engine assembly is being performed.

Isuzu Recommended Sealer and Thread Locker Cross Reference Charts:

The following is a list of the Isuzu recommended Three Bond products called out in Isuzu's service information. Included in this list are the available part number or a description and the Loctite/Permatex product equivalents for your reference.

Using an approved sealer is very important; some of these other materials look and feel similar to each other, but, non-approved materials may react differently. Always use the exact material listed by the engine manufacturer.

### RTV Sealers

| THREEBOND      | DESCRIPTION   | PERMATEX              |
|----------------|---|-----------------------|
| 1207B<br>1207C | Isuzu Part Number 2-90067-801-0   | N/A                   |
| 1281           | Isuzu Part number 2-90067-700-0   | N/A                   |
| 1215           | Isuzu Part Number 2-90067-710-0   | N/A                   |
| 1104           | Resists damaging fluid, resists high temperatures and performs well at low temperatures forming a tough, flexible bond that is highly effective on irregular and uneven joint surfaces.     | 29132<br>(Maker grey) |
| 1141E          | Resists damaging fluid, resists high temperatures and performs well at low temperatures forming a tough, flexible bond that is highly effective on irregular and uneven joint surfaces.     | 29132<br>(Maker grey) |
| 1216<br>1207D  | Form-In-Place Gasketing (FIPG), RTV silicone, Oxime base, grey in color, for sealing engine oil, coolant, transmission (manual & automatic) oils, grease, lubricants and general gasketing. | 82194<br>(Ultra grey) |

### Thread Sealants

| THREEBOND | DESCRIPTION  | LOCTITE      |
|-----------|--|--------------|
| 1342B     | Pneumatic/Hydraulic sealant, locking and sealing high pressure systems. No fillers that could contaminate system fluids. | 545 (purple) |



## Thread Lockers

| THREEBOND   | DESCRIPTION  | LOCTITE                  |
|---|--|--------------------------|
| 1305/1305N<br>1305P<br>1307N<br>1335B<br>1363B<br>1377C<br>1388<br>1386B/1386D<br>1386E | <p>High strength threadlocker &amp; sealant for threaded fasteners, anaerobic (cures in the absence of air) for heavy-duty structural and safety (seatbelt anchor bolt) applications. Resistant to all automotive fluids, oils, coolant &amp; by products (exhaust).</p> <p>Temperature range: 40°F to + 300°F</p> <p>262--for 3/8" to 1" fasteners, 168 lb in break torque</p> <p>271--for 3/8" to 1" fasteners, 230 lb in break torque</p>   | 262 (red)<br>271 (red)   |
| 1360<br>1360N   | <p>High strength, high temperature thread locker &amp; sealant for threaded fasteners, anaerobic (cures in the absence of air) for high temperature application from 275° to 450°F. Resistant to all automotive fluids, oils, coolants &amp; by products.</p> <p>272--for 5/8" to 1" fasteners, 180 lb in break torque</p>   | 272 (red)                |
| 1322N<br>1322<br>1324<br><br>1324D<br>1324N<br>1333D<br>1361C<br>1364D<br>1370C<br>1374 | <p>Medium strength, thread locker, sealant for threaded fasteners, anaerobic (cures in the absence of air).</p> <p>Temperature range: 40° to 300°F</p> <p>For service tool removable fasteners into aluminum, magnesium (or other soft metals) to maintain cover flange loads (valve cover, front covers, oil pans, etc.) brackets and accessories in place.</p> <p>242--for 1/4" to 3/4" fasteners, 115 lb in break torque</p> <p>243--for 1/4" to 3/4" fasteners, 180 lb in break torque</p> | 242 (blue)<br>243 (blue) |
| 1344<br>1344N   | <p>Low strength thread locker &amp; sealant for threaded fasteners, anaerobic (cures in the absence of air).</p> <p>Temperature range: 40° to 300°F</p> <p>For small bolts, and screws, resistant to all automotive fluids, oils, coolants and by-products.</p> <p>222--for use with up to 1/4" fasteners -- 62 lb in break torque</p>   | 222 (purple)             |
| 1320N<br>1321B<br>1323B/1323N<br>1331B<br>1361A<br>1361B                                | <p>Medium to high strength wicking thread locker &amp; sealant for post-assembly (set fasteners--final adjustment--apply 290 to exposed threads for wicking action). Resistant to all fluids, oils, coolants, and by-products. Can be applied to metal components with porosity leaks--will wick in to seal.</p> <p>290--for #2 to 1/2" fasteners--90 lb in break torque</p>   | 290 (green)              |