NyaCAT 20 COLLOIDAL CERIA DISPERSION

NyaCAT 20 is a dispersion of 15 nm ceria particles in C11–C13 Isoparaffin. The product is 20% solids in the hydrocarbon carrier. The product is a transparent yellow to light tan color and is non-settling.

NyaCAT 20 is added to the diesel fuel at 5–10 ppm active catalyst and is delivered premixed to the combustion chamber for maximum benefit. The unique composition of NyaCAT 20 ensures that high activity is maintained in the combustion process. This is unlike conventional additives which decompose in the 2000ºC combustion process.

NyaCAT 20 provides improved fuel economy, removes engine deposits, and reduces harmful exhaust emissions. NyaCAT 20 changes the way fuel burns, so more useful work is delivered, and the burning of engine deposits results in a cleaner, more fuel-efficient engine. Fuel economy is improved 4–8%, resulting in a decrease in CO₂ emissions and the reduction of soot through improved combustion.

USING NyaCAT 20

NyaCAT 20 is easy to use. The product splash-blends easily in storage tanks and is stable as a result of the advanced colloidal chemistry. Nyacol can provide recommendations on dosing equipment for central storage systems and on-board dosing units for individual vehicles.

The product is typically used at one part of NyaCAT 20 to 28,000 parts of diesel. NyaCAT 20 is compatible with most standard diesel fuel additive packages.

TYPICAL PROPERTIES

<table>
<thead>
<tr>
<th>Chemical Formula:</th>
<th>CeO₂</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carrier:</td>
<td>C₁₁–C₁₃ Isoparaffin</td>
</tr>
<tr>
<td>Particle Size, Z Avg., nm:</td>
<td>15</td>
</tr>
<tr>
<td>H₂O, % by K–F:</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Solids, %:</td>
<td>20</td>
</tr>
<tr>
<td>Appearance:</td>
<td>Transparent yellow dispersion</td>
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</tbody>
</table>

PACKAGING

NyaCAT 20 is available in 5-gallon pails and 55-gallon drums.

STORAGE

NyaCAT 20 should be stored at normal warehouse conditions.

SAFETY

Users should observe precautions printed on the packaging label. A Safety Data Sheet for this product will be supplied on request.

TO ORDER MATERIAL OR FOR INFORMATION

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