PRODUCT DATA SHEET

DESCRIPTION
ANA aerospace grade Nomex® honeycomb core is manufactured from Nomex® paper sheets and is coated and bonded together with a phenolic resin.

Designed to offer users and designers high strength-to-weight properties at relatively low cost, Nomex® honeycomb is particularly suitable as a core material for production of sandwich structures requiring significant FST performance and using high performance fiber reinforced composites as the facing material.

FEATURES
- High strength-to-weight ratio
- Easily formed to shape
- Excellent fire-resistant and self-extinguishing properties to FAR 25.583
- Corrosion resistance against water, oil, and fuel
- High temperature capabilities; service temperature up to 180°C
- Good dielectric properties
- Cut to customer specifications

TYPICAL APPLICATIONS
- Sandwich panel applications
- Aircraft flooring—varying densities depending on level of duty
- Aircraft interiors—ranging from sidewalls, galleys, and ceilings, including commercial aerospace, business, and VIP interiors
- Cargo lining
- Helicopter rotor blades
- Aircraft leading and trailing edges
- Fuselage components

PRODUCT DESIGNATION
<table>
<thead>
<tr>
<th>e.g.</th>
<th>ANA (a)</th>
<th>3.2 (b)</th>
<th>48 (c)</th>
<th>(d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>ANA</td>
<td>Nomex® aerospace honeycomb</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td>3.2</td>
<td>Cell size in millimeters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td>29</td>
<td>Density (kg/m²)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. (OX)</td>
<td>Overexpanded</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

STANDARD DIMENSIONS AND TOLERANCES
- Nominal sheet length (W) = 2500 ± 75 mm
- Nominal sheet width (L) = 1250 ± 75 mm
- Sheet thickness as requested from 1.5 mm to 100 mm ± 0.125 mm
- Density as nominal ± 10% (except ANA-3.2-29 ± 13%)

Other sheet sizes may be available upon request.

For our range of commercial grade Nomex® honeycomb (ANC), please refer to our Nomex® Honeycomb—Commercial Grade product data sheet.
PRODUCT DATA SHEET

MECHANICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Stabilized Compression</th>
<th>Plate Shear</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Strength (MPa)</td>
<td>Modulus (MPa)</td>
</tr>
<tr>
<td>ANA-3.2-29</td>
<td>0.90</td>
<td>60</td>
</tr>
<tr>
<td>ANA-3.2-48</td>
<td>2.4</td>
<td>138</td>
</tr>
<tr>
<td>ANA-3.2-64</td>
<td>3.9</td>
<td>190</td>
</tr>
<tr>
<td>ANA-4.8-48(OX)</td>
<td>2.9</td>
<td>120</td>
</tr>
</tbody>
</table>

HEXAGONAL CELL

OVEREXPANDED CELL

T = Thickness or cell depth  
L = Ribbon direction  
W = Direction perpendicular to the ribbon direction

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