Combining high tensile strength, excellent press-formability, and first-rate surface quality, AK Steel’s NEXMET 440EX / 490EX bake-hardenable steel is a member of the lightweight steel family. Enabling automotive customers to realize improvements to dent resistance, as well as opportunities in weight savings, NEXMET 440EX / 490EX represents the next generation of high performance, material for exposed surface applications.
Product Description

PRODUCT COMPARISON

<table>
<thead>
<tr>
<th></th>
<th>BH180</th>
<th>BH210</th>
<th>BH240</th>
<th>BH270</th>
<th>BH300</th>
<th>440EX</th>
<th>490EX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield Strength, (MPa), min.</td>
<td>180</td>
<td>210</td>
<td>240</td>
<td>270</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Tensile Strength, (MPa), min.</td>
<td>300</td>
<td>320</td>
<td>340</td>
<td>360</td>
<td>390</td>
<td>440</td>
<td>490</td>
</tr>
<tr>
<td>Tensile Elongation, (%) min.</td>
<td>35</td>
<td>33</td>
<td>30</td>
<td>28</td>
<td>26</td>
<td>30</td>
<td>27</td>
</tr>
<tr>
<td>Bake Hard Index, (MPa), min.</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>45</td>
<td>35</td>
</tr>
</tbody>
</table>

ADVANTAGES

- Low carbon base composition
- Significant mass savings potential
- Improved dent resistance
- High strength and formability
- Surface-critical application
- High total elongation
- Superior surface and coating quality
- Bake-Hardenable
- Galvannealed (GA)
- Galvanized (GI)

CAPABILITIES

Gauge (mm) | Maximum Width (mm)
--- | ---
0.60 – 1.40 | 915 – 1320

POTENTIAL APPLICATIONS
AK Steel is a leading producer of flat-rolled carbon, stainless and electrical steel products, primarily for the automotive, infrastructure and manufacturing, including electrical power, and distributors and converters markets. Through its subsidiaries, the company also provides customer solutions with carbon and stainless steel tubing products, die design and tooling, and hot- and cold-stamped components. Headquartered in West Chester, Ohio (Greater Cincinnati), the company has approximately 9,500 employees at manufacturing operations in the United States, Canada and Mexico, and facilities in Western Europe. Additional information about AK Steel is available at www.aksteel.com.

The information and data in this document are accurate to the best of our knowledge and belief, but are intended for general information only. Applications suggested for the materials are described only to help readers make their own evaluations and decisions, and are neither guarantees nor to be construed as express or implied warranties of suitability for these or other applications.

Data referring to material properties are the result of tests performed on specimens obtained from specific locations of the products in accordance with prescribed sampling procedures; any warranty thereof is limited to the values obtained at such locations and by such procedures. There is no warranty with respect to values of the materials at other locations.