NEXMET 1000/1200 are lightweighting solutions providing significantly improved formability at higher ultimate tensile strength levels. Modifications to AK Steel’s Hot Dip Galvanizing Line at Dearborn Works permit the production of both coated and cold rolled Next-Generation Advanced High Strength Steels on the same line.
NEXMET® 1000/1200

Product Description

NEXMET 1000/1200 are complex phase products having microstructures containing martensite, bainite and retained austenite, resulting in high strength with excellent ductility (elongation) and hole expansion ratio.

PRODUCT COMPARISON

<table>
<thead>
<tr>
<th></th>
<th>NEXMET 1000</th>
<th>NEXMET 1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield Strength, (MPa), avg.</td>
<td>700</td>
<td>1050</td>
</tr>
<tr>
<td>Tensile Strength, (MPa), avg.</td>
<td>1020</td>
<td>1230</td>
</tr>
<tr>
<td>Tensile Elongation, (%), avg.</td>
<td>21</td>
<td>15</td>
</tr>
</tbody>
</table>

Available as hot-dip galvanized (GI) or uncoated. Galvannealed (GA) under development.

ADVANTAGES

- Lean C-Mn base composition
- Continuous yielding
- Excellent uniform elongation
- High strain rate sensitivity
- Good fatigue resistance
- Bake-Hardenable
- Cold Rolled (CR)
- Galvanized (GI)

CAPABILITIES

- Gauge 1.0 – 2.0 mm
- Maximum width 1,350 mm
- Demonstration samples available

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 9,200 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.