Standard Practice for
Color Codes on Zinc and Zinc Alloy Ingot for Use in Hot-Dip
Galvanizing of Steel

This standard is issued under the fixed designation B914; the number immediately following the designation indicates the year of
original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A
superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This standard is published with the following objectives:
1.1.1 To establish standard color codes for zinc, zinc alloy
and zinc master alloy ingot used by the Hot-Dip Galvanizing
industry, and
1.1.2 To standardize the use and application of these color
codes.

1.2 This standard does not purport to address all of the
safety concerns, if any, associated with its use. It is the
responsibility of the user of this standard to become familiar
with all hazards including those identified in the appropriate
Material Safety Data Sheet (MSDS) for this product/material
as provided by the manufacturer, to establish appropriate
safety and health practices, and determine the applicability of
regulatory limitations prior to use.

2. Referenced Documents

2.1 The following documents of the issue in effect on date
of order acceptance form a part of this specification to the
extent referenced herein:

2.2 ASTM Standards:²
B6 Specification for Zinc
B275 Practice for Codification of Certain Nonferrous Metals
and Alloys, Cast and Wrought
B750 Specification for GALFAN (Zinc-5 % Aluminum-
Mischmetal) Alloy in Ingot Form for Hot-Dip Coatings
B852 Specification for Continuous Galvanizing Grade
(CGG) Zinc Alloys for Hot-Dip Galvanizing of Sheet
Steel
B860 Specification for Zinc Master Alloys for Use in Hot
Dip Galvanizing

² This practice is under the jurisdiction of ASTM Committee B02 on Nonferrous
Metals and Alloys and is the direct responsibility of Subcommittee B02.04 on Zinc
and Cadmium.

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10.1520/B0914-03R08.

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or
contact ASTM Customer Service at service@astm.org. For Annual Book of ASTM
Standards volume information, refer to the standard’s Document Summary page on
the ASTM website.

B899 Terminology Relating to Non-ferrous Metals and Al-
loys
E527 Practice for Numbering Metals and Alloys in the
Unified Numbering System (UNS)
2.3 ISO Standard:
ISO 752 Zinc and Zinc Alloys–Primary Zinc³
2.4 CEN Standard:
EN 1179 Zinc and Zinc Alloys–Primary Zinc⁴

3. Terminology

3.1 Terms shall be defined in accordance with Terminology
B899.

4. Significance and Use

4.1 The purpose of these color codes is to allow for quick
identification of ingot bundles or jumbo ingots of alloys used
for hot-dip galvanizing. Other than jumbo ingots, this standard
is not intended to imply that each ingot will be color-coded but
only that each ingot bundle be color coded.

4.2 Each ingot bundle or jumbo ingot shall be identified
with the appropriate color code listed in Table 1.

4.3 The color will be applied as a stripe, or stripes, on two
adjacent sides of the ingot bundle or jumbo ingot. The color
stripes will be applied to include the ingot bundle foot.

4.4 When using multiple stripes, the colored stripes will be
applied from left to right as indicated in Table 1.

4.5 In the absence of a written agreement to the contrary
between the supplier and end user, the North American color
code will be the standard for all North American transactions;
for all other transactions the International Color Code will be
used.

5. Keywords

5.1 aluminum-zinc alloys; color; color code; GALFAN;
GALVAUME; galvanizing; hot-dip; non-ferrous metals; zinc;
zinc alloys; zinc-aluminum alloys

³ Available from American National Standards Institute (ANSI), 25 W. 43rd St.,

⁴ Available from Global Engineering Documents, 15 Inverness Way, East
### TABLE 1 Color Codes for Zinc and Zinc Alloys Used for Hot Dip Galvanizing

<table>
<thead>
<tr>
<th>Alloy</th>
<th>UNS</th>
<th>ASTM Standard</th>
<th>Nominal Composition</th>
<th>Color Code North America</th>
<th>International</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Zinc Grades&lt;sup&gt;C&lt;/sup&gt;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHG</td>
<td>(Z13001)</td>
<td>B6</td>
<td></td>
<td>Yellow</td>
<td>Yellow</td>
</tr>
<tr>
<td>HG</td>
<td>(Z15001)</td>
<td>B6</td>
<td></td>
<td>Green</td>
<td>Green</td>
</tr>
<tr>
<td>PW</td>
<td>(Z19001)</td>
<td>B6</td>
<td>Pb~1.0 %</td>
<td>Black</td>
<td>Black</td>
</tr>
<tr>
<td>CGG Alloys</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Z80310)</td>
<td>B852</td>
<td>0.25</td>
<td></td>
<td>Brown/Brown</td>
<td>Yellow/Brown</td>
</tr>
<tr>
<td>(Z80411)</td>
<td>B852</td>
<td>0.35</td>
<td></td>
<td>Blue/Blue</td>
<td>Yellow/Blue</td>
</tr>
<tr>
<td>(Z80511)</td>
<td>B852</td>
<td>0.45</td>
<td></td>
<td>Purple/Purple</td>
<td>Yellow/Purple</td>
</tr>
<tr>
<td>(Z80531)</td>
<td>B852</td>
<td>0.45</td>
<td>Pb~0.02 %</td>
<td>Red/Red</td>
<td>Yellow/Red</td>
</tr>
<tr>
<td>(Z80610)</td>
<td>B852</td>
<td>0.55</td>
<td></td>
<td>Pink/Pink</td>
<td>Yellow/Pink</td>
</tr>
<tr>
<td>(Z80710)</td>
<td>B852</td>
<td>0.65</td>
<td></td>
<td>Green/Green</td>
<td>Yellow/Green</td>
</tr>
<tr>
<td>(Z80810)</td>
<td>B852</td>
<td>0.75</td>
<td></td>
<td>Black/Black</td>
<td>Yellow/Black</td>
</tr>
<tr>
<td>(Z80910)</td>
<td>B852</td>
<td>1.00</td>
<td></td>
<td>Orange/Orange</td>
<td>Yellow/Orange</td>
</tr>
<tr>
<td>Master Alloys</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type A-1</td>
<td>(Z30750)</td>
<td>B660</td>
<td>10.0</td>
<td>High Purity</td>
<td>Red/Green</td>
</tr>
<tr>
<td>Type A-2</td>
<td>(Z31710)</td>
<td>B660</td>
<td>10.0</td>
<td>Low Purity</td>
<td>Red/Black</td>
</tr>
<tr>
<td>Type A-3</td>
<td>(Z30503)</td>
<td>B660</td>
<td>5.0</td>
<td>High Purity</td>
<td>Red/Blue</td>
</tr>
<tr>
<td>Type A-4</td>
<td>(Z31510)</td>
<td>B660</td>
<td>5.0</td>
<td>Low Purity</td>
<td>Red/Yellow</td>
</tr>
<tr>
<td>Type S-1</td>
<td>(Z55710)</td>
<td>B660</td>
<td>Sb~10.0 %</td>
<td>Black/Green</td>
<td>Yellow/Black/Green</td>
</tr>
<tr>
<td>Specialty Alloys</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GALFAN&lt;sup&gt;D&lt;/sup&gt;</td>
<td>(Z38510)</td>
<td>B750</td>
<td>5.0</td>
<td>Mischmetal</td>
<td>Purple/Blue</td>
</tr>
<tr>
<td>GALVALUME&lt;sup&gt;E&lt;/sup&gt;</td>
<td></td>
<td></td>
<td>55.0</td>
<td>Si~1.5 %</td>
<td>Orange/Green</td>
</tr>
</tbody>
</table>

<sup>A</sup> UNS assignations were established in accordance with Practice E527. The last digit of a UNS number differentiates between alloys of similar composition.

<sup>B</sup> The North American system is designed to be a simplified version of the International system by eliminating the leading yellow stripe.

<sup>C</sup> Color codes taken from European Standard EN 1179.

<sup>D</sup> GALFAN is a registered trademark of the GALFAN Information Center, Inc.

<sup>E</sup> GALVALUME is a registered trademark of BIEC International Inc., USA.

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