

## Standard Practice for Color Codes on Zinc and Zinc Alloy Ingot for Use in Hot-Dip Galvanizing of Steel<sup>1</sup>

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 ( $\varepsilon$ ) 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 Safety Data Sheet (SDS) for this product/material as provided by the manufacturer, to establish appropriate safety, health, and environmental practices, and determine the applicability of regulatory limitations prior to use.

1.3 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

### 2. Referenced Documents

## <u>ASTM B914-21</u>

https://standards.iteh.ai/catalog/standards/sist/934473e2-096e-437d-99c6-bf3dd9e74280/astm-b914-21

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:<sup>2</sup>

**B6** Specification for Zinc

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

**B899** Terminology Relating to Non-ferrous Metals and Alloys

**B997** Specification for Zinc-Aluminum Alloys in Ingot Form for Hot-Dip Coatings

E527 Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)

2.3 ISO Standard:<sup>3</sup>

ISO 752 Zinc and Zinc Alloys–Primary Zinc

#### \*A Summary of Changes section appears at the end of this standard

<sup>&</sup>lt;sup>1</sup> 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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<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, http://www.ansi.org.

2.4 *CEN Standard:*<sup>4</sup> EN 1179 Zinc and Zinc Alloys–Primary Zinc

## 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.

# iTeh Standards

#### TABLE 1 Color Codes for Zinc and Zinc Alloys Used for Hot Dip Galvanizing Nominal Composition Color Code ASTM UNS<sup>A</sup> Standard AI North America<sup>B</sup> Alloy Other International Primary Zinc Grades<sup>C</sup> B6 SHG (Z13001) Yellow Yellow HG (Z14003) B6 Green Green PW (Z18005) **B6** Pb-1.0 % Black Black CGG Alloys Yellow/Brown (Z80310) **R852** 0 25 Brown/Brown (Z80411) B852 0.35 Blue/Blue Yellow/Blue 0.45 (Z80511) B852 Purple/Purple Yellow/Purple (Z80531) B852 0.45 Pb-0.02 % Red/Red Yellow/Red B852 0.55 Pink/Pink (Z80610) Yellow/Pink (Z80710) B852 0.65 Green/Green Yellow/Green (Z80810) B852 0.75 Black/Black Yellow/Black (Z80910) B852 1 00 Orange/Orange Yellow/Orange Master Allovs Type A-1 (Z30750) B860 10.0 High Purity Red/Green Yellow/Red/Green Type A-2 B860 Low Purity (Z31710) 10.0 Red/Black Yellow/Red/Black Type A-3 (Z30503) B860 5.0 High Purity Red/Blue Yellow/Red/Blue Type A-4 Low Purity Yellow/Red/Yellow B860 (Z31510) 5.0 Red/Yellow Type A-5 (Z31520) B860 High Purity Red/Brown Yellow/Red/Brown 4.0 Low Purity Type A-6 (Z30504) B860 4.0 Red/Purple Yellow/Red/Purple Type S-1 (Z55710) B860 Sb-10.0 % Black/Green Yellow/Black/Green Specialty Alloys B750 5.0 GALFAN<sup>D</sup> (Z38510) Mischmetal Purple/Blue Yellow/Purple/Blue Type 5 (95/5 Zn/Al) (Z30507) B997 5.0 Purple/Red Yellow/Purple/Red Type 10 (90/10 Zn/Al) (Z30600) B997 10 Purple/Green Yellow/Purple/Green Type 15 (85/15 Zn/Al) B997 15 Purple/Orange Yellow/Purple/Orange (Z30706) GALVALUME<sup>E</sup> 55.0 Si-1.5 % Orange/Green Yellow/Orange/Green

<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.

<sup>&</sup>lt;sup>4</sup> Available from Global Engineering Documents, 15 Inverness Way, East Englewood, CO 80112-5704, http://www.global.ihs.com.