



Standard Practice for Color Codes on Zinc and Zinc Alloy Ingot for Use in Hot-Dip Galvanizing of Steel¹

This standard is issued under the fixed designation B 914; 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

B 6 Specification for Zinc

B 275 Practice for Codification of Certain Nonferrous Metals and Alloys, Cast and Wrought

B 750 Specification for GALFAN (Zinc-5 % Aluminum-Mischmetal) Alloy in Ingot Form for Hot-Dip Coatings

B 852 Specification for Continuous Galvanizing Grade (CGG) Zinc Alloys for Hot-Dip Galvanizing of Sheet Steel

B 860 Specification for Zinc Master Alloys for Use in Hot Dip Galvanizing

B 899 Terminology Relating to Non-ferrous Metals and Alloys

¹ 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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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.

E 527 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 **B 899**.

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; GALVALUME; galvanizing; hot-dip; non-ferrous metals; zinc; zinc alloys; zinc-aluminum alloys

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

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



TABLE 1 Color Codes for Zinc and Zinc Alloys Used for Hot Dip Galvanizing

Alloy	UNS ^A	ASTM Standard	Nominal Composition		Color Code	
			Al	Other	North America ^B	International
Primary Zinc Grades ^C						
SHG	(Z13001)	B 6			Yellow	Yellow
HG	(Z15001)	B 6			Green	Green
PW	(Z19001)	B 6		Pb–1.0 %	Black	Black
CGG Alloys	(Z80310)	B 852	0.25		Brown/Brown	Yellow/Brown
	(Z80411)	B 852	0.35		Blue/Blue	Yellow/Blue
	(Z80511)	B 852	0.45		Purple/Purple	Yellow/Purple
	(Z80531)	B 852	0.45	Pb–0.02 %	Red/Red	Yellow/Red
	(Z80610)	B 852	0.55		Pink/Pink	Yellow/Pink
	(Z80710)	B 852	0.65		Green/Green	Yellow/Green
	(Z80810)	B 852	0.75		Black/Black	Yellow/Black
	(Z80910)	B 852	1.00		Orange/Orange	Yellow/Orange
Master Alloys						
Type A-1	(Z30750)	B 860	10.0	High Purity	Red/Green	Yellow/Red/Green
Type A-2	(Z31710)	B 860	10.0	Low Purity	Red/Black	Yellow/Red/Black
Type A-3	(Z30503)	B 860	5.0	High Purity	Red/Blue	Yellow/Red/Blue
Type A-4	(Z31510)	B 860	5.0	Low Purity	Red/Yellow	Yellow/Red/Yellow
Type S-1	(Z55710)	B 860		Sb–10.0 %	Black/Green	Yellow/Black/Green
Specialty Alloys						
GALFAN ^D	(Z38510)	B 750	5.0	Mischmetal	Purple/Blue	Yellow/Purple/Blue
GALVALUME ^E			55.0	Si–1.5 %	Orange/Green	Yellow/Orange/Green

^A UNS assignments were established in accordance with Practice E 527. The last digit of a UNS number differentiates between alloys of similar composition.

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

^C Color codes taken from European Standard EN 1179.

^D GALFAN is a registered trademark of the GALFAN Information Center, Inc.

^E GALVALUME is a registered trademark of BIEC International Inc., USA.

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