

1. Metallic-Coated Products and Specifications

- 1.1. Understanding Coating Weight Designations for Zinc-Based Coatings on Steel Sheet
- 1.2. Hot-Dip Coated Sheet Products
- 1.3. Galvanneal - Differences from Galvanize
- 1.4. 55% Aluminum-Zinc Alloy-Coated Steel Sheet
- 1.5. ASTM Standards for Coated Sheet Products
- 1.6. Selecting Coating Thickness (Weight or Mass) for Galvanized Steel Sheet Products
- 1.7. Advantages of Metallic-Coated Steel Framing in Residential Buildings
- 1.8. Steels Used in Coated Sheet Products
- 1.9. Zinc-5% Aluminum Alloy-Coated Sheet
- 1.10. Useful Galvanized Sheet Metrics

2. Coating Processes and Surface Treatments

- 2.1. The Continuous Hot-Dip Coating Process for Steel Sheet Products
- 2.2. The Continuous Electroplating Process for Steel Sheet Products
- 2.3. Continuous Hot-Dip Galvanizing versus General (Batch) Galvanizing
- 2.4. The Role of Aluminum in Continuous Hot-Dip Galvanizing
 - 2.4.1. Zinc Bath Management on Continuous Hot-Dip Galvanizing Lines
- 2.5. Control of Coating Weight (Mass) for Continuous Hot-Dip Galvanized Sheet Products
- 2.6. The Spangle on Hot-Dip Galvanized Steel Sheet
- 2.7. Galvanizing – The Use of Chemical Fluxes
- 2.8. Improving Uniformity of Appearance & Controlling Discontinuous Yielding Behavior
 - 2.8.1. Strain Ageing in Galvanized Low Carbon Steel Sheet
- 2.9. Treatments for Enhancing Formability
- 2.10. Imparting Resistance to Storage Stain
- 2.11. Preparing Galvanize for Field Painting
- 2.12. Pretreatments for Metallic-Coated Sheet
- 2.13. Treatments for Resistance to Handling and Fingerprint Marks

3. Corrosion – Mechanisms, Prevention and Testing

- 3.1. How Zinc Protects Steel
- 3.2. Protecting Galvanized Steel Sheet Products from Storage Stain
- 3.3. Dark-Colored Stains on Galvannealed Sheet
- 3.4. The Salt Spray Test
- 3.5. Fretting Corrosion (Transit Abrasion) on Galvanized Sheet
- 3.6. Galvanic/Bimetallic (including Cut Edge) Corrosion of Galvanized Sheet

4. Prepainted Metallic-Coated Steel Sheet

- 4.1. Introduction to Painted, Metallic-Coated, Steel Sheet Products
- 4.2. Prepainted Metallic-Coated Steel Sheet for Building Panels – Assuring Good Performance
- 4.3. Repair Painting of Prepainted Metallic-Coated Steel Sheet

5. General Coated Sheet Topics

- 5.1. Hardness Measurement of Coated Sheet
- 5.2. Zinc Grades Used for Continuous Hot-Dip Galvanize

6. Using Metallic-Coated Steel Sheet

- 6.1. Successfully Shipping and Storing Galvanized Steel Sheet
- 6.2. Successfully Manufacturing Products made with Galvanized Steel Sheet
- 6.3. Successfully Designing Products made with Galvanized Sheet
- 6.4. Successfully Maintaining Structures Clad with Prepainted Metallic-Coated Steel Sheet