
Ridalco Industries Inc.

Manufacturers of Stainless Steel
and other specialty metal products

Stainless Steel: The “GREEN” Material



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What is Stainless Steel?

Stainless Steel consists of a group of Iron based alloys containing a minimum of 10.5% chromium. The presence of chromium gives the material its corrosion resistance by creating an invisible surface layer preventing oxygen from reaching the surface. Chromium content is increased once elements such as nickel and molybdenum are added—this improves corrosion and heat resistant properties.

The American Iron and Steel Institute recognizes more than 60 grades of Stainless Steel, the most popular being type 304 or 201.

The name “Stainless Steel” originates from the idea that this type of steel does not stain or rust as *easily* as other types of steel—the material “stains less” than ordinary steel.

Why Stainless Steel?

There are *many* reasons to choose Stainless Steel:

- Great appearance, style, and utility
- Durable and corrosion resistant
- Sanitary and easy to clean
- Flexible—easy to shape to fit unique spaces and incorporate seamless designs
- Friendly to our environment—100% recyclable!

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How is Stainless Steel “GREEN”?

1. RECYCLABLE

Stainless Steel and *products* made from Stainless Steel are **100%** recyclable! Because Stainless Steel has such a long, useful life, the need for new resources is not needed which contributes to resource minimization. The recycling process is simple:

- The material is collected by metal scrap dealers
- The scrap material is sent back to the melt shop for use in producing new Stainless Steel

Unlike other recycled materials, Stainless Steel is not “downgraded”; the material maintains the same quality and usable life as the original.

2. WASTE MINIMIZATION

During the manufacturing process, discarded pieces such as tail ends and edge trims are:

- Collected and organized by type
- Returned to the electric furnace to be melted and used again

The packaging of the final product is composed of recyclable materials as well—wrapping paper, steel bands, and wooden cradles.

3. ENVIRONMENTAL PRINCIPLES

Many of the producers of Stainless Steel in North America have developed an environmental policy.

SSINA member companies are dedicated to operations that focus around two principles:

- Comply with local, provincial, and federal laws and regulations
- Continue economic growth while ensuring that environmentally and scientifically sound and cost-effective policies are promoted

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How is Stainless Steel “GREEN”?

4. POLLUTION PREVENTION

Air emissions: A series of ductwork and hoods collect air emissions from the electric furnace to ensure it is not released into the atmosphere. Once the air emissions are collected in a large fabric filter, known as the “bag house”, the larger, solid particles are collected and recycled. Once air emission from acid pickling are collected, a fume scrubber is used to remove the acids mists.

Water treatment: Water used in the plant is collected and passed through a treatment facility to maximize potential usage. The clarification and filtration equipment meets the best available technology standards.

Stainless Steel and Specialty Steel industries produce hazardous materials; however, **100%** of these materials are either treated or recycled, rendering these materials **completely** non-hazardous to the environment.

5. ENVIRONMENTAL MANAGEMENT SYSTEMS

Companies who are members of the Stainless Steel Industry of North America (SSINA) have established specific departments within their corporate structure, Environmental Affairs Department, designated to address environmental issues and ensure the company’s compliance with environmental regulations.

6. PARTICIPATION IN COOPERATIVE ENVIRONMENTAL COUNCILS AND PARTNERSHIPS

The Stainless Steel industry is involved with various governmental and environmental councils and partnerships. For example, the *Common Sense Initiative* which was Chaired by the Administrator of the U.S. Environmental Protection Agency.

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Ridalco Industries Inc.

Ridalco Industries Inc. is a privately owned metal fabrication company with a proud history dating back to the mid 1940's. Ridalco custom manufactures precision products, parts, assemblies, enclosures, cabinets and furniture in stainless steel, steel, aluminum, copper and brass for a wide variety of industries and applications across North America including:

- Stainless Steel Commercial Food Service Equipment for Restaurants and Cafeterias;
- Stainless Steel Medical Cabinetry, Tables, Carts and Equipment for Hospitals, Labs, Medical and Veterinarian Clinics, Schools and Other Institutions;
- Custom Stainless Steel Fabrication for Pharmaceutical Manufacturers and Food Processing Plants;
- Stainless Steel Countertops, Cabinetry, Backsplashes, Exhaust Hoods and Furniture for Residential Kitchens and Other Rooms in the Home;
- Stainless Steel Dog Wash Basins for Veterinarians, Groomers and Residential Customers;
- Steel and Stainless Steel Corner Guards and Decorative Pieces for Commercial Building Lobbies, Elevators, Loading Docks, etc.
- Custom Job Shop Metal Parts Fabrication for Industrial Factories and Assembly Plants serving customers in such diverse industries as Mining, Pulp and Paper, Construction, etc.

Please visit our website to find out more about our products and how Stainless Steel can work for you!

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