

400 Series Stainless Steel



Alro Steel stocks 409, 439 and 430 Stainless Sheet grades

409 Stainless Steel Sheet

409 stainless steel is the lowest cost option in the stainless family. 409 is a general purpose stainless steel with 11% chromium. 409 is especially useful for applications requiring oxidation or corrosion protection beyond the capability of carbon steel and some coated steels. 409 has good oxidation resistance and formability, but lower corrosion resistance due to the chromium content. 409 is not as corrosion resistant as 304, 430 or 439 grades, but far superior to mild carbon steel. 409 can be formed by roll forming, stretch bending, deep drawing or pressing. Applications include automotive exhaust systems, heat exchangers, furnace liners, catalytic converters and silencers.

Alro stocks standard pattern sizes from 11ga-20ga in thickness, and can cut to size as needed.



439 Stainless Steel Sheet

439 stainless steel has good corrosion resistance due to its 17% minimum chromium content. 439 can be formed using a wide range of roll forming or mild stretch bending operations as well as more common drawing and bending operations. Special adjustment to chemical composition give this alloy excellent formability. 439 is more oxidation resistant and corrosion resistant than 409 grade. 439 has high thermal conductivity and low thermal expansion. Standard applications for 439 include automotive exhaust components, heating units and evaporator tubes.

Alro stocks standard pattern sizes from 11ga-24ga in thickness, and can cut to size as needed.

430 Stainless Steel Sheet

430 stainless steel has good corrosion resistance combined with good formability. 430 is very similar to 439 grade stainless steel with slightly less chromium at 16% minimum content. 430 is more oxidation resistant and corrosion resistant than 409 grade. 430 is a popular non-hardenable grade most commonly used in indoor environments. 430 is readily cold formed by bending, deep drawing and stretch forming. 430 is relatively easy to machine and is comparable to that of structural carbon steel requiring the same recommendations regarding tooling, cutting speeds and cutting feeds. 430 can be welded although it may require annealing. Typical applications include appliances, food equipment, automotive, flue liners and roofing.

Alro stocks standard pattern sizes from 11ga-20ga in thickness, and can cut to size as needed.

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Pictured, the Alro Steel facility in Pottsville, Michigan



Alro Steel was founded in 1948 by brothers Al and Robert Glick in Jackson, Michigan. The company is a distributor of metals and plastics. Alro is focused on offering cut-to-size metals and plastics with next day delivery to over 50,000 customers in North America. Alro operates over 80 locations in 16 states and provides a broad inventory of products under the following companies: Alro Steel, Alro Metals, Alro Metals Outlet, and Alro Plastics. Focused on exceeding our customers' expectations, we build relationships with all our customers, large and small. [To learn more, please visit alro.com.](http://alro.com)

| Metals | Bar | Pipe & Tube | Plate & Sheet | Structural | Grating & Exp. Metal |
|-----------------|-----|-------------|---------------|------------|----------------------|
| Alloy | ● | ● | ● | | |
| Aluminum | ● | ● | ● | ● | ● |
| Brass | ● | | ● | | |
| Bronze | ● | ● | | | |
| Carbon Steel | ● | ● | ● | ● | ● |
| Cast Iron | ● | ● | | | |
| Copper | ● | ● | ● | | |
| Stainless Steel | ● | ● | ● | ● | ● |
| Tool Steel | ● | | ● | | |

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