

The logo for Aleris Rolled Products features the word "Aleris" in a stylized, italicized red font. A grey swoosh curves over the top of the letters. Below "Aleris" is the text "Rolled Products" in a clean, black, sans-serif font.

Aleris

Rolled Products

A photograph showing a factory floor with several large rolls of aluminum coil. The rolls are arranged in a line, and a yellow forklift is visible in the foreground. The scene is brightly lit, and the floor is reflective.

3105 - Aluminum Coil
"THE SMART CHOICE"

Many industry buyers are making the “smart choice” and using this more cost effective rolled aluminum material in applications where AA 3003 alloy has been the standard.

Substituting 3105 for 3003 applications allows for significant benefits.

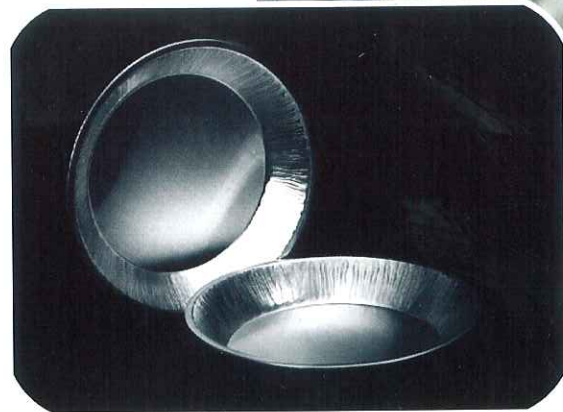
- **COST SAVINGS**
- **GOOD FORMABILITY AND WORKABILITY**
- **EXCELLENT CORROSION RESISTANCE**
- **EXCELLENT FOR WELDING AND BRAZING APPLICATIONS**
- **THE “GREEN” CHOICE - 3105 USES RECYCLED MATERIAL WHILE STILL MAINTAINING PROPERTIES AND PERFORMANCE CHARACTERISTICS**
- **ALLOY 3105 IS OFFERED IN BOTH CONTINUOUS CAST(CC) OR DIRECT CHILL CAST (DC) PROCESS**

Near identical mechanical properties allow for easy substitution without compromising quality.

Mechanical Property Comparison

3105 and 3003 - Typical Mechanical Properties for .040” Gauge.

Model	Yield (ksi)	Tensile (ksi)	Elongation
3105 H24	23.0	28.0	9%
3105 H14	22.0	25.0	5%
3003 H14	21.0	22.0	8%



3105 is an excellent alloy for painted applications, as can be seen in some examples below

The Green Choice

3105 utilizes a high scrap content that provides a recycled product at an excellent value. The chemical composition of 3105 is similar to 3003 alloy as indicated in the table below.

Chemical Composition.

Based on Aluminum Association limits of major alloying elements.

	3105	3003
Silicon %	0.6	0.6
Iron %	0.7	0.7
Copper %	0.3	0.05 - 0.2
Manganese %	0.3 - 0.8	1.0 - 1.5
Magnesium %	0.2 - 0.8	-----
Chromium %	0.2	-----
Nickel %	-----	-----
Zinc%	0.4	0.1

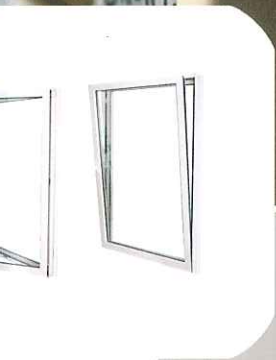
The Ideal General Engineering Alloy

3105 is a good general purpose engineering alloy that works well in many manufacturing applications. It has comparable characteristics to 3003 as can be seen in the table below.

Comparative Characteristics

	3105 H24	3105 H14	3003 H14
Corrosion	A	A	A
Workability	B	B	B
Machinability	D	D	D
Brazeability	A	A	A
Weldability	A	A	A
Anodizing Quality*	Fair	Good	Good

NOTE: Ratings A through E are relative ratings in decreasing order of merit. *Anodizing quality is based on 5005 having a rating of excellent.



Aleris Rolled Products AA 3105 has been replacing AA 3003 in many different aluminum applications. Companies across North America are realizing significant cost savings without jeopardizing quality. We can make this a reality for you.

Building and Construction Products

Roofing, Rainware, Sun Rooms, Screen Frame, Air Ducts, Sign Stock, Siding, Soffit, Trim, Awnings and Canopies, Garage Doors, Louvers and Vents, Architectural Panels.

Transportation

Custom Trailers, Recreational Vehicles, Bus Panel, License Plates.

Consumer Durables

Cookware, Indoor Appliances, Pontoon boats, BBQ Applications.

Electrical

Lighting Applications, Electrical Equipment.

Machinery and Equipment

General Engineering Applications,
Pipe Jacketing, HVAC casings,
Housings and panels.

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Aleris
Rolled Products

**Please contact your authorized
Aleris Rolled Products distributor
for product availability or call
Aleris direct at 1-866-266-2586**