

the cast



Welcome to The Cast

Spectro Alloys has been operating in Rosemount for nearly 50 years, but many people don't know that we play a key role in the sustainable economy. With this new newsletter, we hope to broaden our community's understanding of aluminum recycling to show how integral aluminum is to our daily lives and emphasize the benefits that come from repurposing it at Spectro Alloys.

Spectro Alloys operates one of the highest efficiency aluminum recycling plants in the United States right here in Rosemount. Our innovative recycling process turns aluminum you recycle into products you use every day. Apart from used beverage containers, if it is aluminum and recycled in Minnesota, it most likely starts its new life at Spectro Alloys. From here, it is shipped to regional die casters and foundries where it is then made into new products for the automotive, power sports, home, medical, turf, and snow maintenance industries. Best of all, recycling at

Spectro Alloys provides significant environmental benefits. Our process uses 95% less energy and releases 95% less CO₂ than it takes to produce new aluminum.

We are always improving at Spectro Alloys. In the months ahead, you may notice some construction activity at our plant as we upgrade our operations and aesthetic appearance. These changes are imperative to continue being a leader in modern recycling, improve our environmental performance and enhance the surroundings of our plant.

I hope you enjoy the first issue of "The Cast"!

Sincerely

Luke Palen
President, Spectro Alloys



THE CAST

Wondering about the meaning behind our newsletter name? In our industry, we cast products from aluminum. We're also shining a light on our recent achievements and the cast of Spectro employees who make them possible. New team members make more than \$50,000/year with no experience necessary, and we provide many career paths and opportunities for training and growth. Come join our cast!





Recycling for Life

Aluminum can be infinitely recycled. It powers many of life's experiences and by recycling, supports a better planet for tomorrow. We all have a role to play in the life cycle of this important resource. This is what we mean by our tagline, **RECYCLING FOR LIFE**. By giving old things new life through recycling, Spectro Alloys helps create more sustainable products that people need while saving energy and reducing environmental impacts. Many customers prefer recycled aluminum because

of its lower cost – both in terms of dollars and the energy it takes to produce. We help customers source high-quality aluminum alloys for products like cars and boats, ATVs and recreational vehicles, building construction materials, home appliances, and more.

Over the past **48 years**, Spectro has recycled more than **5 billion pounds** of aluminum. Compared to primary aluminum production, which generates new aluminum from bauxite, recycling aluminum at Spectro has:



Saved enough energy to power **5.4 million HOMES** for one year



Reduced the CO2 equivalent of taking **2.4 million CARS** off the ROAD for one year

Spectro's lifetime CO2 reduction equates to:

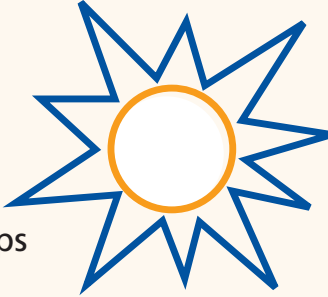


Planting **175 million trees**

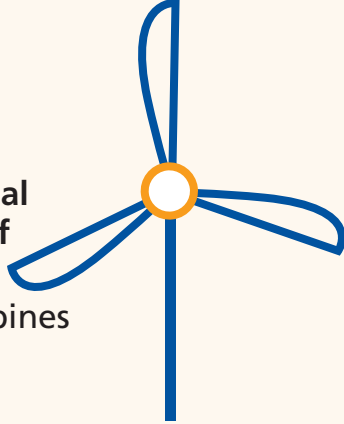


Swapping **400 million** light bulbs for LEDs

The annual benefit of **3 million** residential solar rooftops



The annual benefit of **2,400** wind turbines



How we recycle aluminum at Spectro Alloys

Sourcing



Scrap aluminum is sourced in truckload quantities from post-consumer and industrial sources.

All material is thoroughly inspected and graded upon arrival.

Sorting/Shredding

Larger material is shredded to provide a cleaner, denser stream of aluminum scrap for the furnaces.

Our state-of-the-art x-ray sorting system inspects for contaminants, separating out any non-aluminum automatically.



Melting



Prepared scrap is introduced into high efficiency furnaces that reach 1,400F.

Molten aluminum is purified, cleaned and alloyed to meet customer specifications.

Casting



Our continuous casting lines pour, skim and cool 28lb aluminum ingots, which are palletized robotically into 2,000lb stacks.

New Life



High-quality recycled aluminum begins its new life by being shipped to die casters and foundries, where it is then cast into a new product.

COMING SOON: Plant upgrade projects



Spectro Alloys' new warehouse will be completed in the spring of 2022

New warehouse

Spectro Alloys is building a new warehouse facility totaling 70,000 square feet on its property near Highway 55 in Rosemount. The modern warehouse will significantly reduce truck traffic in and out of the facility while streamlining production, shipping and receiving processes for safety and efficiency. The warehouse project will include landscaping that enhances the environment around the facility and is more aesthetically pleasing. This project is expected to be completed in the spring of 2022.

State-of-the-art pollution control equipment

Completed in August, a new \$3 million baghouse – which filters the air inside the Spectro Alloys facility – has enhanced process automation and controls and expands the company's industry-leading environmental performance. Baghouses are traditionally attached to furnaces within plant environments to capture emissions. While these air filtration systems are standard for the recycling process, Spectro's state-of-the-art technology is industry leading.

SCRAPS

New video showcases recycling at Spectro Alloys:

For an even deeper look into our operations, visit spectroalloys.com to check out our latest video. We take you into the plant to demonstrate the aluminum recycling process and highlight our state-of-the-art technology.



ISO certification:

Did you know Spectro Alloys is ISO 14001:2015 certified? This recognizes that our processes meet world-class standards for environmental system management.

Environmental performance:

As leaders in the aluminum recycling industry, the Spectro Alloys team believes it is our duty to set the example for socially responsible environmental stewardship. We are committed to meeting or exceeding environmental laws, regulations and corporate goals, and we will continue to invest in innovative technologies, programs and partnerships that enhance the positive impacts of recycling at Spectro Alloys. Stay up-to-date on our environmental performance at spectroalloys.com/emissions.

Stay connected: We encourage community members to stay connected by following us on [LinkedIn](#) and [Facebook](#) and by visiting our [website](#). If you have a question or want to talk with someone at Spectro Alloys, visit spectroalloys.com/contact-us.

