

## Sustainable Metallic Abrasives



### Doing better with less

Our customers can:

- Use less abrasive per work piece, and generate less waste
- Consume less energy per work piece

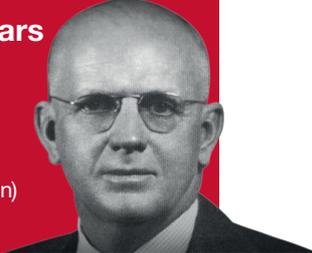
scope ① scope ② scope ③

## 1920

### Ervin founded by John F. Ervin

Over 100 years of circular economy

>98% of our raw materials are recycled (not virgin)



## Recyclable paper packaging since 1960s



## 2014

### Glaubitz plant

Modern efficient plant with Central European location

scope ③



## 2022

### Amapure

Removing contamination to extend the life of abrasives, work pieces and equipment



scope ①  
scope ②



## Greater efficiency, reduced carbon dioxide emissions

Use of oxygen in our tempering processes

scope ① scope ②



## 2024

Scope 2 emissions reduced by 20% in one year

### Glaubitz wind turbine

scope ②



## Sustainable working practices

- Digitalisation
- Video led customer support
- Investment in people and communities



## 2027

### Hydrogen reduces carbon emissions by 80%

Gas fuel replaced with CO<sub>2</sub>-free Hydrogen

scope ①  
scope ②



## 2030

### Net zero

15 years ahead of German Government requirements

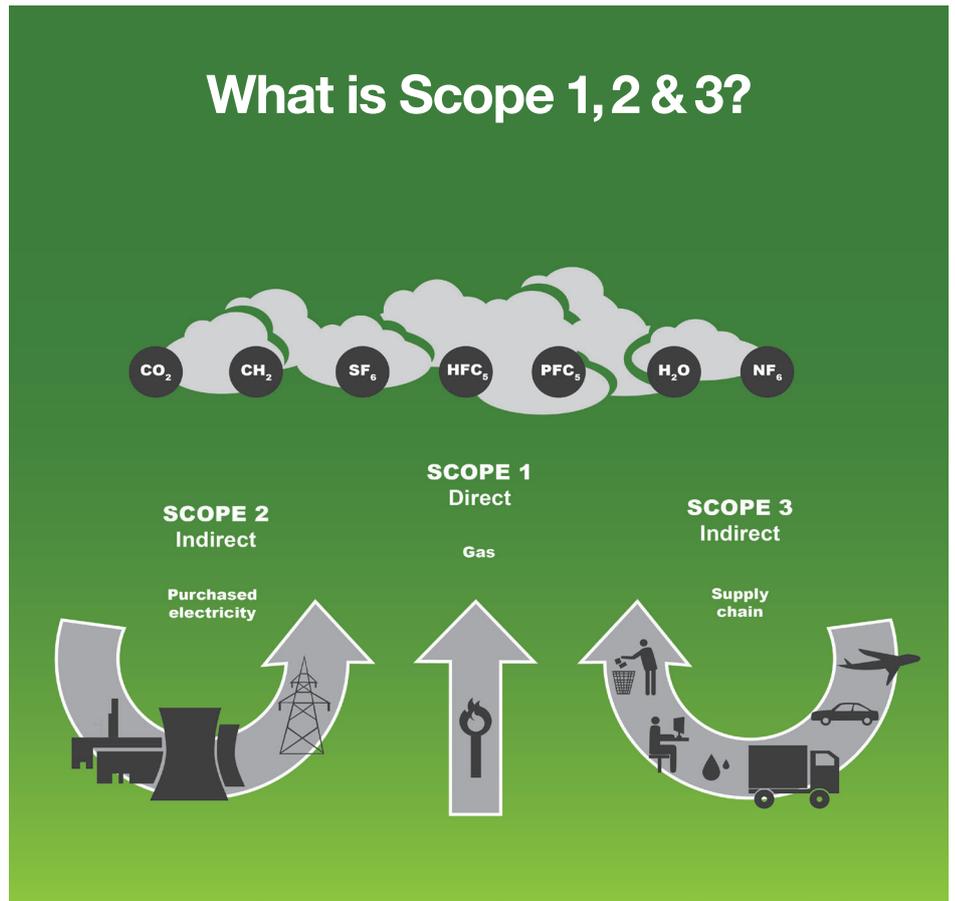


# SUSTAINABLE METALLIC ABRASIVES

John F Ervin started our company in the early 1920s with an innovative concept for recycling scrap steel to improve productivity and reduce resource consumption and waste in his customers' blasting process, creating our own circular economy. Doing better with less has been the Ervin philosophy since then, from being part of the circular economy for over 100 years to our ambitious 2030 net zero plan using hydrogen.

## The Current Situation

- >98% of our raw materials are recycled
- Our carbon footprint for 2023 was <0.5 kg CO<sub>2</sub> / tonne steel
- Our high quality products reduce customers' scope 2 emissions
  - Superior durability and TE, boosts blasting productivity and efficiency
  - Lower energy consumption with more effective blasting media
  - Reduced waste and abrasive consumption
  - Lower overall process costs
- Recyclable standard packaging for over 60 years
- Digitisation and efficiency drive in our plants
- Reduced transportation and travel
- Care of our workers and their communities



## The Future

Projects that we already have in place will reduce our carbon emissions by:

- 20% in 1 year (end 2024)
- 80% in 4 years (end 2027)
- Reducing our customers scope 3 emissions

## Driven by our innovations:

- Oxygen added to furnaces to reduce natural gas consumption
- Direct supply of green electricity from our own wind turbine in 2024
- Completely replacing natural gas with hydrogen from 2027

**We are on track to net zero carbon emissions by 2030; far in advance of local government targets.**



**ERVIN**

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