

Scrap Metal Identification Guide

Aluminum

- 1100 (white)
- 2011 (brown)
- 2017 (yellow/green)
- 2024 (red)
- 3003 (green)
- 3105 (pink)
- 5005 (yellow/red)
- 5052 (purple)
- 5086 (red/orange)
- 6061 (blue)
- 6063 (yellow)
- 6101 Bus Bar (pink)
- 6262 (orange)
- 7075 (black)

Stainless

- 201L (pink)
- 303 (black)
- 304 (green)
- 304L (gold)
- 309 (brown)
- 310 (red)
- 316 (purple)
- 316L (purple/white)
- 409 (brown/blue)
- 410 (orange)
- 416 (blue)
- 17-4 (black/silver)
- 17-4 H 1150 (silver)
- 430 (white)
- Aquamet® 19 (green/white)
- Aquamet® 22 (blue/white)
- Aquamet® 17 (red/white)
- Alloy 20 (yellow/green)

Carbon Steel Bars

- A36 (brown)
- 1018 CD (green)
- 1018 HR (green)
- 1018 TP (red)
- 1018/20 (green/red)
- 1020 S8Q (green/brown)
- 1035 (blue)
- 1042/45 (yellow)
- 1042/1045 HR (yellow)
- 1045 TGP/DGP (yellow/red)
- 1050 (yellow/pink)
- 1137/1141 (brown/white)
- 1141 TGP/DGP (brown/red)
- 1144 CF (brown/black)
- 1144 HR (brown/black)
- 1117 (gold)
- 11L17 (gold/purple)
- 1215 Accuracy (red/white)
- 12L14 (purple)
- 1215 (orange)
- Fatigue-proof® (silver)
- M1044 (white)
- Stressproof® (pink)
- Stressproof® GP (blue/red)

Alloy Steel Bars

- ETD-150 (black/gold)
- ETD-150 CD (black/gold)
- ETD-150 G&P (black/gold)
- 4130 Norm Q&T (blue/black)
- 4140/4142 Q&T (black)
- 4140 annealed (black/yellow)
- 4150 RS, Q&T (purple/black)
- 4340 annealed (white/yellow)
- 4340 Q&T (white/orange)
- 8620 (orange/green)
- 86L20 (purple/green)
- E4340 HT (white/blue)

Carbon Tubing

- CD Buttweld ASTM A512 (pink)
- CD Buttweld (green)
- D.O.M. (gold)

Carbon & Alloy Plate

- A-36 (brown)
- A-514 AR plate (orange/black)
- A-514 Str.-quality (blue)
- A-514 Gr. B 321 (orange/white)
- A-514 Gr. B 340 (orange/blue)
- A-514 Gr. B 360 (orange/green)
- 1030 (purple)
- 1045 Carbon (yellow)
- Abrasion Resisting (pink)
- ASTM A516 (70) Norm PVQ (blue/red)
- ASTM A516 (70) PVQ (blue/pink)
- ASTM A572 (50) (white/green)
- A387 Grade 11 (black/green)
- A387 Grade 22 (black/silver)
- AR 400 (black/gold)
- AR 400F (orange)
- AR 225 (green)
- T-1 (green/yellow)
- T-1 Type A (ASTM A514 Gr. B) (green/pink)
- T-1 Type B (ASTM A514 Gr. F) (green/blue)

Brass & Copper

- Naval Brass Alloy 464 (green)
- Naval Brass Alloy 485 (orange)
- Phosphor Bronze Alloy 544 (blue)
- FC Brass Alloy 360 (red)

Scrap metal identification guide is an essential resource for anyone looking to recycle metal effectively and profitably. Understanding the different types of scrap metal not only helps in maximizing returns but also plays a significant role in promoting environmental sustainability. This guide will walk you through the various categories of scrap metal, their characteristics, and the best practices for identification and recycling.

Understanding Scrap Metal Categories

Scrap metal can be broadly classified into two main categories: ferrous and non-ferrous metals. Each category has its unique characteristics, recycling processes, and market values.

1. Ferrous Metals

Ferrous metals contain iron and are magnetic. They are widely used in construction, manufacturing, and various industrial applications. The primary types of ferrous metals include:

- **Steel:** The most common ferrous metal, steel is an alloy of iron and carbon. It is used in buildings, vehicles, and appliances.
- **Cast Iron:** Known for its durability and resistance to wear, cast iron is typically found in pipes, machinery, and cookware.
- **Wrought Iron:** This is a malleable form of iron that is often used in decorative items, railings, and gates.

2. Non-Ferrous Metals

Non-ferrous metals do not contain iron and are generally non-magnetic. They are lighter and more resistant to corrosion than ferrous metals. Common non-ferrous metals include:

- **Aluminum:** Lightweight and resistant to corrosion, aluminum is commonly found in cans, foil, and automotive parts.
- **Copper:** Known for its excellent electrical conductivity, copper is used in electrical wiring, plumbing, and roofing.
- **Brass:** An alloy of copper and zinc, brass is often used in fittings, musical instruments, and decorative items.
- **Lead:** Used in batteries, radiation shielding, and plumbing, lead is heavy and toxic, requiring careful handling during recycling.
- **Zinc:** Often used for galvanizing steel to prevent rust, zinc is found in various construction materials.

Identifying Scrap Metal

Proper identification of scrap metal can help you sort and separate materials effectively, leading to better recycling outcomes. Here are some methods and tips for identifying different types of scrap metal:

1. Visual Inspection

Start with a careful visual examination of the metal. Look for color, texture, and any markings that may indicate the type of metal. For example:

- Steel is usually gray or silver and has a rough texture.
- Aluminum is lighter than steel and has a shiny, silvery appearance.
- Copper has a distinct reddish-brown color and a smooth surface.
- Brass typically has a yellowish hue and is heavier than aluminum.

2. Magnet Test

Using a magnet is a quick way to distinguish between ferrous and non-ferrous metals. If the magnet sticks to the metal, it is ferrous (like steel or cast iron). If the magnet does not stick, it is non-ferrous (like aluminum, copper, or brass).

3. Weight and Density

Different metals have varying densities. For instance, copper is much denser than aluminum, making it heavier for the same volume. If you have two pieces of metal that look similar, weighing them can help you determine which is which.

4. Scratch Test

If you're still unsure, you can perform a scratch test. Use a sharp object to scratch the surface of the metal:

- Copper will reveal a bright reddish color beneath.
- Aluminum will show a lighter, silvery color.
- Brass will reveal a yellow color underneath.

5. Chemical Testing

For more advanced identification, chemical tests can be used. This involves applying specific chemicals to the metal to observe reactions. This method is often used in

professional settings but may not be practical for casual recyclers.

Common Scrap Metal Items

Familiarizing yourself with common scrap metal items can significantly streamline the identification process. Below is a list of typical items that can be recycled along with their associated metal types:

1. **Household Appliances:** Refrigerators, washing machines (primarily steel)
2. **Electrical Wiring:** Copper wiring (non-ferrous)
3. **Automotive Parts:** Aluminum rims, lead batteries (various metals)
4. **Construction Materials:** Steel beams, aluminum siding (ferrous and non-ferrous)
5. **Plumbing Fixtures:** Brass faucets, copper pipes (non-ferrous)

Best Practices for Scrap Metal Recycling

To ensure you are recycling scrap metal effectively, follow these best practices:

1. Sort Your Metals

Before taking your scrap metal to a recycling center, sort your metals into ferrous and non-ferrous categories. This will save you time and ensure you receive the best price for your materials.

2. Clean Your Metals

Remove any non-metal components such as plastic, rubber, or wood from your scrap. Clean metal is more valuable and easier to recycle.

3. Store Properly

Store your scrap metal in a dry, organized space to prevent rust and damage. Use bins or containers to separate different types of metal.

4. Research Local Recycling Centers

Not all recycling centers accept the same types of metals or offer the same prices. Research local facilities and consider calling ahead to confirm what they accept and their current rates.

5. Keep Safety in Mind

Always wear protective gloves and safety goggles when handling scrap metal to prevent injuries. Be mindful of sharp edges and heavy items.

Conclusion

Understanding how to identify and sort scrap metal is crucial for maximizing your recycling efforts and contributing to environmental sustainability. By following this **scrap metal identification guide**, you can ensure that you are making informed decisions that benefit both your wallet and the planet. With practice and attention to detail, you will become proficient at identifying various metals and optimizing your recycling process, making a positive impact in your community.

Frequently Asked Questions

What is a scrap metal identification guide?

A scrap metal identification guide is a resource that helps individuals and businesses recognize different types of metals for recycling or disposal, detailing their properties, uses, and market values.

Why is it important to identify scrap metal correctly?

Correctly identifying scrap metal is crucial for maximizing recycling profits, ensuring proper handling and disposal, and complying with environmental regulations.

What are the most common types of scrap metals found in a scrap metal identification guide?

Common types include ferrous metals like iron and steel, and non-ferrous metals such as aluminum, copper, brass, and stainless steel.

How can I differentiate between ferrous and non-ferrous metals?

Ferrous metals contain iron and are magnetic, while non-ferrous metals do not contain

significant amounts of iron and are typically not magnetic.

Are there any tools or techniques for identifying scrap metals?

Yes, tools like magnets, color indicators, and acid tests can help identify metals. Visual inspection and weight comparisons are also effective identification techniques.

Where can I find a scrap metal identification guide?

Scrap metal identification guides can be found online through recycling websites, metal trading platforms, or in print at local recycling centers and hardware stores.

What resources can I use to stay updated on scrap metal values?

You can use online market reports, mobile apps that track metal prices, and local scrap yards to stay informed about current scrap metal values.

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