

5000 Series Aluminium Scrap

Neutral Technical Reference | Scrap Classification & Commercial Sorting

Prepared as an initial reference for CELEBIOGLU TRADE website use. No producer or recycler brand is represented.

Series overview

Magnesium-bearing, non-heat-treatable aluminium family with good corrosion resistance.

Topic	Reference
Alloying emphasis	Magnesium is the main alloying element.
Typical applications	Marine, transport, tanks, structural sheet, automotive and architectural products.
Typical scrap sources	Marine plate offcuts, sheet and coil trim, transport body scrap, structural fabrication scrap.

Sorting and segregation guidance

Keep separated from 6xxx when chemistry control is tight; Mg level is a key commercial parameter.

Commercial acceptance points

- Painted/coated sheet, attached fasteners and moisture can affect yield and purchase deductions.
- Agree form before shipment: loose, baled, bundled, shredded, turnings/chips, profile offcuts or production returns.
- Define maximum non-aluminium attachments and foreign material such as steel, plastics, rubber, glass, oil, dirt and moisture.
- For chips/turnings, specify dryness, oil content, particle size and packaging because these directly affect recovery and safety.
- Use photos, representative samples, PMI/XRF where appropriate, and a written acceptance specification before commercial commitment.

Safety and logistics

- Keep scrap dry, especially before remelting. Moisture can create a severe explosion hazard when charged into molten aluminium.
- Sharp edges, unstable bundles and heavy packages require suitable handling equipment and PPE.
- Fine chips and dust require additional housekeeping and fire-risk controls.

This document is a neutral commercial/technical reference for scrap classification. It is not a purchase specification, inspection certificate, SDS, waste classification, customs ruling or legal acceptance standard. Final acceptance criteria must be agreed with the buyer and supplying party.