



QT-030-S V3.0 - Specification for scrap aluminum

SCOPE: This specification applies to all scrap aluminum and remelt secondary ingot

1.0 TERMS AND DEFINITIONS: The following descriptions define the scrap material types. Any variation to these material types shall be agreed to prior to issuing the purchase order and will be noted on said purchase order.

1.1. 1000 Series Sheet / Clip: To consist of 1000 series alloys, to be free of paper, plastic, excessively inked sheets, and any other contaminants. Minimum size of 1" square, 0.050" minimum thickness.

1.2. E.C. (Electrical Conductor) Wire: Shall consist of clean E.C. Aluminum wire to be baled and chopped. To be free of screening, hair-wire, iron, copper, insulation and other non-metallic items. Must be free of minus 20 mesh material. Must contain 99.45% Aluminum content.

1.3. Bare Extrusion / Press Scrap: Shall consist of one alloy. Material may contain "butt ends" from the extrusion process but must be free of any foreign contamination. Anodized material is acceptable.

1.4. Painted Extrusions: Material to consist of new production and old/used 6063 painted extrusions. Must not contain other alloys of Aluminum. Material shall be free of zinc corners, iron attachments, felt, plastic, paper, cardboard, thermal break, and dirt, wood, 6061 solids, and sheet/plate/clip.

1.5. 6063 10/10: Material to consist of new production and old/used 6063 extrusions that may contain up to (but not exceed) 10 percent painted extrusions and 10 percent 6061 alloy extrusions. Must not contain other alloys of Aluminum. Material shall be free of zinc corners, iron attachments, felt, plastic, paper, cardboard, wood, thermal break, and dirt and other contaminants.

1.6. Dealer Package: Shall consist of old extruded Aluminum of one alloy; typically 6063 or 6061. Material must be free of iron, thermal break, saw chips, zinc corners, dirt, paper, cardboard, wood and other foreign contamination. Percentages of paint or other alloys to be agreed upon by buyer and seller.

1.7. RSI (Remelt Secondary Ingot): Shall consist of Aluminum scrap which has been sweated or melted into a form or shape such as an ingot, sow or slab for convenience in shipping; to be free from corrosion, dross or any non-Aluminum inclusions. Will be purchased subject to sample or analysis. Product to be received as only single-pour low-profile sows.

1.8. Sheet / Plate / Clip: Shall consist of clean, uncoated, and unpainted Aluminum scrap of one specified alloy (6022, 6061, or 5052) with a minimum thickness of 0.050". Material to be free of hair wire, wire screen, dirt and other non-metallic items. Oil and grease not to total more than 1%. Also free from punchings less than 1/2" in size.

1.9. Wheels: Shall consist of clean, single-piece, unplated Aluminum wheels of a single specified alloy (A356 or 6061), free of all inserts, steel, wheel weights, valve stems, tires, grease and oil, and other non-metallic items. Loose "Not Boxed or Palletized" loads are preferred.

1.10. 2XXX Series Wrought Aluminum: Specific alloy should be verified with the Buyer. Scrap should

consist of clean, uncoated wrought alloy with a minimum thickness of 0.050". Material to be free of dirt, oil and non-metallic material. The individual weight of each piece shall not exceed 2,000lbs.

2. DELIVERED MATERIAL SPECIFICATIONS

2.1. All incoming loads are subject to inspection in regard to this specification, verification of material type and verification of chemical composition. Nanshan America may break apart, mechanically separate, dump from boxes or means necessary to properly inspect incoming material.

2.2. Shipments with multiple items / material types will be accepted subject to the following conditions:

2.2.1. No more than (3) items per shipment will be accepted unless outlined in the PO.

2.2.2. Items are to be physically separated within the trailer or container, clearly identified and grouped by material type.

2.2.3. Each package, bale, or bundle must be clearly identified with the material type / alloy

2.2.4. The suppliers packing slip must delineate the material type and weight of each item as noted on the Purchase order. The suppliers packing slip must be delivered to Nanshan America 24 hours prior to physical delivery.

2.2.5. If changes need to be made to the purchase order contact the buyer so this can be done prior to the load arriving at the dock. Not following these directions could result in a rejection of the load/material.

2.3. Appointments are required for all deliveries of scrap and the appointment number must be provided by the driver before entering the facility. A purchase order number must be provided when scheduling a delivery appointment.

2.4. Nanshan America will accept material type's listed in Section 1 in the following forms as applicable:

2.4.1. **Loose Scrap:** Loose scrap must be of one alloy and all loose. No baled, boxed or bundled scrap can be shipped in a loose load. Loose scrap trailers are dumped using a hydraulic lift truck and must meet the following requirements for unloading:

- Trailer length shall not exceed 48'
- The trailer must have sliding tandems (axles)
- The rear bumper must have 36" of ground clearance

Note: **Nanshan America is not responsible for any trailer damage**

2.4.2. **Package Loads:** Package loads consist of boxed, baled, or bundled material and cannot be wrapped in cardboard, plastic, other nonconforming materials. Each bundle, bale or box must be clearly identified, grouped in the trailer by item, and loaded securely for efficient unloading. Clearance of 8" from the top of the trailer and at least 3" on each side of the trailer side is required for unloading. Bales cannot be loaded vertically or stacked in a pyramid format. Improperly secured or stacked loads may be rejected. **Nanshan America is not responsible for trailer damage due to improper loading or inadequate unloading clearance.** The maximum weight per individual bale,

box, or bundle is 7,500 lbs. The maximum bundle length shall be 16' unless specified on the purchase order.

2.5. A Bill of Lading must accompany the driver on all incoming shipments (not sealed in the trailer) with the following information:

- Supplier
- purchase order number
- Delivery appointment number
- Gross, net, and tare weight
- Description of the load to be received (as outlined on the purchase order) with each item / material type included on the shipment listed separately. A packing list may be substituted for the load description.

2.6. All loads will be weighed upon receipt to ensure accurate receipt weight. Nanshan America measurements will govern for payment purposes. If Nanshan America scales detect a deviation of 1.1% or more, the truck will be held until the supplier is contacted to resolve the deviation.

2.7. Incoming material that does not pass inspection in regard to material type or chemistry as specified on the purchase order, will be rejected or downgraded. Agreement with the supplier will be sought prior to downgrading a shipment. When upgrading or downgrading individual bales or bundles, Nanshan America may use the weights listed on the packing list or may use the total net weight of the delivered load divided by the number of bales to develop a bundle or bales average weight. A reloading fee may be charged for any load that is rejected after unloading.

2.8. The following conditions may be cause for immediate rejection of an incoming shipment:

- 2.8.1. Closed containers in the load
- 2.8.2. Bundled scrap longer than 16' in length
- 2.8.3. Loose scrap longer than 6' in length
- 2.8.4. Crimped "both ends" pipe pieces in the load
- 2.8.5. Fertilizers, salt, or other hygroscopic material in the load
- 2.8.6. Detection of radioactive material in the load
- 2.8.7. Lithium, Boron, Lead or Beryllium bearing material in the load
- 2.8.8. Excessive dirt, grease, gravel, or other foreign material or contamination
- 2.8.9. Excessive saw fines
- 2.8.10. Material shipped in plastic, steel containers, or other non-disposable containers.
- 2.8.11. Material that does not meet the specification listed in Section 1 "Terms and Definitions."

2.9. Nanshan America will take the following standard deductions:

- 2.9.1. Gaylord boxes – 32 lbs. per box plus an additional handling and disposal fee of \$10 per box
- 2.9.2. Pallets – 50 lbs. for each pallet

- 2.9.3. Steel Wire banding – 2 lbs. per bale or bundle
- 2.9.4. Saw Fines – Deducted weight will be estimated upon receipt.
- 2.9.5. Other non-Aluminum material – (cardboard, trash, steel or other metals, dirt, gloves, etc.) Deducted weight will be estimated upon receipt.
- 2.9.6. Water, Snow, Ice – Deducted weight will be estimated upon receipt.
- 2.9.7. If the vendor's shipping documents adequately and accurately describe tare weights, said weights may be used in lieu of the standard deductions. Use of said weights shall be at Nanshan America discretion and should be noted on the PO prior to receiving.