NARI Specifications for Non-Ferrous Metals

4apple 1. DELIVERY
a. Delivery of more or less on the specified quantity up to 1/2% per cent is permissible.
b. If the term "about" is used, it is understood that 5 per cent more or less of the quantity may be delivered.
c. Should the seller fail to make deliveries as specified in the contract, the buyer has the option of cancelling all of the uncompleted deliveries or holding the seller for whatever damages the purchaser may sustain through failure to deliver and is liable to suffer on the amount of damages for an Arbitration Committee of the National Association of Secondary Material Industries, Inc. may be appointed for this purpose, to determine the amount of such damages.
d. In the event that buyer should claim the goods, delivered on a contract, are not up to the proper standard, and the seller claims that they are a proper delivery, the dispute may be referred to an Arbitration Committee of the National Association of Secondary Material Industries, Inc. to be appointed for that purpose.
e. A carload, unless otherwise designated, shall consist of the weight governing the minimum carload weight at the lowest carload rate of freight in the territory in which the seller is located. If destination of material requires a greater carload minimum weight, buyer shall specify.
f. A ton shall be understood to be 2,000 pounds unless otherwise specified. On material purchased for export shipment a ton shall be specified as either a Gross Ton of 2240 lbs., or a Metric Ton of 2046.4 lbs.
g. If, through embargo, a delivery cannot be made at the time specified, the contract shall remain valid, and shall be completely and immediately on the lifting of the embargo, and terms of said contract shall not be changed. When shipments for export for which space has been engaged have been delivered or tendered to a steamship for forwarding and through insignificance of cargo space the steamship cannot accept the shipment, or where steamer is delayed in sailing beyond its scheduled time, shipment on the next steamer from the port of shipment shall be deemed a compliance with the contract as to time of shipment.
h. In case of a difference in weight and the seller is not willing to accept buyer's weights, a sworn public weigher shall be employed and the party most in error must pay the costs of handling and reshipping.
i. When material is such that it can be hatched by hand, conscientiously reject the entire shipment if the percentage of rejection does not exceed 10 per cent. The disposition of the rejected material should then be arranged by negotiation; no replacement of the rejected material to be made.

Upon request of the shipper, rejection shall be returnable to the seller, on domestic shipments within 10 days and on foreign shipments within 30 days from the time notice of rejection is received by him, and provided government regulations permit such return. Seller to pay 1/2 per lb. on material rejected to cover cost of sorting and packing and seller to be responsible for freight both ways.

j. PACKAGES

Shall be good strong packages suitable for shipment and each package shall be plainly marked with separate shipping marks and numbers and with the gross and tare weights so that the packages may reach their destination and their weights can be easily checked.

Berry 2. No 1 COPPER WIRE

Shall consist of clean, untinned, unsoldered, unalloyed copper wire and cable, not smaller than No. 16 B & S wire gauge, free of burr wire which is brittle. Hydraulically briequettet copper subject to agreement.

Birch 3. No 2 COPPER WIRE

Shall consist of miscellaneous, unalloyed copper wire having a nominal 96% copper content (minimum 94%) as determined by electrolytic assay. Shall be free of the following: Excessively leaded, tinned, soldered copper scrap; brasses and bronzes; excessively oil content, iron and non-metals; copper tubing with other than copper connections or with sediment; copper wire from burning, containing insulation; hair wire; burnt wire which is brittle; and should be reasonably free of ash. Hydraulically briequettet copper wire subject to agreement.

Candy 4. No 1 HEAVY COPPER

Shall consist of clean, unassembled, unalloyed copper clippings, punchings, less than copper-content, and where the purchaser has the option of cancelling all of the uncompleted deliveries or holding the seller for whatever damages the purchaser may sustain through failure to deliver and is liable to suffer on the amount of damages for an Arbitration Committee of the National Association of Secondary Material Industries, Inc. may be appointed for this purpose, to determine the amount of such damages.

Drey 6. LIGHT COPPER

Shall consist of miscellaneous, unalloyed copper scrap having a nominal 95% copper content (minimum 85%) as determined by electrolytic assay and shall consist of sheet copper, gutters, downspouts, ducts, bolts, holsters, and similar scrap. Shown shall be free of the following: Burnt hair wire; copper cable; plating racks; grinding; copper wire from burning, containing insulation; fire extinguishers; refrigerators units; electrolyte shells; screening; excessively leaded, tinned, soldered scrap; brasses and bronzes; excessive oil, iron and non-metals. Should be reasonably free of ash. Hydraulically briequettet copper subject to agreement.

Drink 7. REFINERY BRASS

Shall consist of a minimum of 63.3% copper and maximum 5% iron and to consist of brasses, bronze solids and turnings, and alloyed and contaminated copper scrap. Shall be free of insulated wire, grindings, electrolyte shells and non-metals. Hydraulically briequettet material subject to agreement.

Dvree 8. COPPER-BEARING SCRAP

Shall consist of miscellaneous copper-containing bronzings, grindings, ashes, tin-brass and copper, residues and slags. Free of insulated wires; copper chlorides; unprepared tinned material; large motives; pyrophoric material; arsenious-based leagings; foreign bottoms; high copper materials; gun-flint; and explosive materials. Free of powdered material by agreement. Hydraulically briequettet material subject to agreement.

Ebon 9. COMPOSITION OR RED BRASS

Shall consist of brass scrap, valves, machinery bearings and other machinery parts, including miscellaneous castings made of copper, tin, zinc, and/or lead. Shown shall be free of semi-cast brass castings (76% to 81% copper); railroad car boxes and other similar high-alloy; cocks and faucets; gates; pot pieces; lugers and burned brass; aluminum and manganese bronzes; iron and non-metals. No piece to measure more than 12" over any one part or weigh over 100 lbs.

Enera 10. RED BRASS COMPOSITION TURNINGS

Shall consist of turnings from red brass composition material and should be sold subject to sample or analysis.

Elder 11. GENUINE BABBITT-LINED BRASS BUSHINGS

Shall consist of brass bushings and bearings from automobiles and other machinery, shall contain not less than 12% high tin base bearing, and shall be free of iron-backed bearings.

Elond 12. HIGH GRADE — LOW LEAD BRONZE SOLIDS

It is recommended these materials be sold by analysis.

Elbow 13. BRONZE PAPER MILL WIRE CLOTH

Shall consist of clean genuine Fourdriner wire cloth and screen having a minimum copper content of 87%, minimum tin content of 3%, and a maximum lead content of 1%, free of stainless steel and Monel metal solids. No piece to measure more than 12" over any one part or weigh over 100 lbs.

Etsel 14. HIGH LEAD BRONZE SOLIDS AND BORINGS

It is recommended that these materials be sold on sample or analysis.

Engel 15. MACHINERY OR HARD BRASS SOLIDS

Shall have a copper content of not less than 75%, a tin content of not less than 6%, and a lead content of not less than 6%—nor more than 15%—and total impurities, exclusive of zinc, antimony, and nickel of not more than 0.75%; the antimony content not to exceed 0.50%. Shall be free of lined and unlined standard red brasses.

Erin 16. MACHINERY OR HARD BRASS BORINGS

Shall have a copper content of not less than 75%, a tin content of not less than 6%, and a lead content of not less than 6%—nor more than 11%—and the total impurities, exclusive of zinc, antimony, and nickel, of not more than 0.75%; the antimony content not to exceed 0.50%.

Feace 17. UNLINED STANDARD RED CAR BOXES (CLEAN JOURNALS)

Shall consist of standard unlined and/or swasted railroad boxes and unlined and/or swasted car journal bearings.
of a continuous line galvanizing bath, in slab form not weighing in excess of 100 pounds each, with a minimum zinc content of 90%. Shall be free of streakings. Broken pieces under 2" in diameter shall not exceed 10% of the weight of each shipment.

Seam 69.—CONTINUOUS LINE GALVANIZING SLAB ZINC BOTTOM DROSS
Shall consist of unwastted zinc dross removed from the bottom of a continuous line galvanizing bath, in slab form not weighing in excess of 100 pounds each, with a minimum zinc content of 92%. Shall be free of streakings. Broken pieces under 2" in diameter shall not exceed 10% of the weight of each shipment.

Shelf 70.—PRIME ZINC DIE CAST DROSS
Shall consist of metal skimmed from the top of pot of molten zinc die cast metal. Must be unwasted, unfluxed, shiny, smooth, metallic and free from corrosions or oxidation. Should be poured in molds or in small rounds weighing not over 75 pounds each. Zinc shall be minimum of 95%.

ANY OTHER GRADES OF ZINC-BEARING MATERIALS NOT MENTIONED ARE SUBJECT TO SPECIAL ARRANGEMENT.

Table 71.—NEW PURE ALUMINUM CLIPPINGS
Shall consist of new, clean, unalloyed sheet, clipings and/or aluminum sheet cuttings, free from oil and greases, foil and any other foreign substances and from punchings less than ⅜" in size.

Table 72.—MIXED LOW COPPER ALUMINUM CLIPPINGS AND SOLIDS
Shall consist of all, new, unalloyed and unpatinated low copper aluminum scrap of two or more alloys and to be free of foil, hair wire, wire screen, dirt, and other foreign substances. Greens and all not to total more than 5%. Also free from punchings less than ⅜" in size. New can stock subject to arrangement between buyer and seller.

Table 73.—MIXED OLD ALLOY SHEET ALUMINUM
Shall consist of clean old alloy sheet aluminum of two or more alloys and to be free of 70/30 series foil, vacation blinds, castings, hair wire, screen wire, food or beverage containers, pie plates, oil cans and bottle caps, dirt, and other foreign substances. Oil and grease not to total more than 1%. Up to 10% painted sildings andawnings permitted.

Table 74.—SCRAP SHEET AND SHEET UTENSIL ALUMINUM
Shall consist of clean, unalloyed old 2S or 2S aluminum sheet and sheet utensils, free from hub caps, radiator shells, airplane sheet, foil, food or beverage containers, pie plates, oil cans and bottle caps, dirt, and other foreign substances. Oil and grease not to total more than 1%.

Table 75.—NEW ALUMINUM CAN STOCK
Shall consist of new, low copper aluminum cans stock and clipings, clean, lithographed or not lithographed, and coated with clear lacquer but free of lids with sealers, iron, dirt and other foreign contamination. Oil not to exceed 1%.

Table 76.—OLD CAN STOCK
Shall consist of clean old aluminum cans, decorated or clean, free of iron, dirt, liquid and/or other foreign contamination.

Table 77.—PAINTED SIDING
Shall consist of clean, low copper aluminum siding scrap, painted one or two sides, free of iron, dirt, corrosion, fiber backing or any other type of foreign contamination.

Talent 78.—COATED SCRAP
Shall consist of awnings, venetian blinds, vinyl, plastic, etc. Shall be subject to special arrangements between buyer and sellers.

Talk 79.—ALUMINUM COPPER RADIATORS
Shall consist of clean aluminum and copper radiators, and/or aluminum fins on copper tubing, free of brass tubing, iron and other foreign contamination.

Talk 80.—E. C. ALUMINUM NODES
Shall consist of clean E. C. aluminum, chopped or shredded, free of screening, hair wire, iron nails, cloth, copper and other foreign contamination. Must be free of minus 20 mesh material. Must contain 99.5% aluminum content.

Table 81.—NEW PURE ALUMINUM WIRE AND CABLE
Shall consist of new, clean, unalloyed aluminum wire or cable free from hair wire, wire screen, iron, rust and any other foreign substance.

Table 82.—OLD PURE ALUMINUM WIRE AND CABLE
Corns Word  Item

Terry 83.—ALUMINUM PISTONS
(a) Clean Aluminum Pistons
Shall consist of clean, unalloyed aluminum plates to be free from struts, bushings, shafts, iron rings and any other foreign materials. Oil and grease not to exceed 2%.
(b) Aluminum Pistons with Struts
Shall consist of clean whole aluminum pistons with struts to be free from bushings, shafts, iron rings and any other foreign materials. Oil and grease not to exceed 2%.
(c) Irony Aluminum Pistons
Should be sold on recovery basis, or by special arrangements with purchaser.

Teco 84.—SEGREGATED ALUMINUM BORINGS AND TURNINGS
Shall consist of clean, unalloyed aluminum borings and turnings of one specified alloy only and subject to deductions for fines in excess of 4% through a 20 mesh screen and dirt, free iron, oil, moisture and all other foreign materials. Material containing iron in excess of 10% and/or free magnesium or stainless steel containing highly flammable cutting compounds will not constitute good delivery.

Teclo 85.—MIXED ALUMINUM BORINGS AND TURNINGS
Shall consist of clean, unalloyed aluminum borings and turnings of two or more alloys and subject to deductions for fines in excess of 3% through a 20 mesh screen and dirt, free iron, oil, moisture and all other foreign materials. Material containing iron in excess of 10% and/or free magnesium or stainless steel containing highly flammable cutting compounds will not constitute good delivery. To avoid disputes should be sold on basis of definite maximum size, tin and magnesium content.

Tenn 86.—MIXED ALUMINUM CASTINGS
Shall consist of all clean aluminum castings which contain or contain air and airplane castings, no ingots, and to be free of iron, dirt, brass, babbit, and any other foreign materials. Oil and grease not to total more than 2%.

Trepid 87.—WRECKED AIRPLANE SHEET ALUMINUM
Should be sold on recovery basis or by special arrangements with purchaser.

Tere 88.—NEW ALUMINUM FOIL
Shall consist of clean, new, pure, unalloyed, unalloyed aluminum foil, free from anodized foil, radar foil and chart, paper, plastics, or any other foreign materials. Hydraulically briequetted material by arrangement only.

Testy 89.—OLD ALUMINUM FOIL
Shall consist of clean, old, pure, unalloyed, unalloyed aluminum foil, free from anodized foil, radar foil and chart, paper, plastics, or any other foreign materials. Hydraulically briequetted material by arrangement only.

Thigh 90.—ALUMINUM GRINDINGS
Should be sold on recovery basis or by special arrangements with purchaser.

Thistle 91.—ALUMINUM DREGSES, SPATTERS, SPILLINGS, SKIMMINGS AND SWEEPINGS
Should be sold on recovery basis or by special arrangements with purchaser.

Throb 92.—SWEATED ALUMINUM
Shall consist of aluminum scrap which has been sweatied or melted into a form or shape such as a ingot, pig or slab for convenience in shipping; to be free from corrosion, drosses or any foreign materials. Should be sold subject to sample or analysis.

Tooth 93.—SEGREGATED NEW ALUMINUM ALLOY CLIPPINGS AND SOLIDS
Shall consist of new, clean, unalloyed and unpainted aluminum scrap of one specified alloy only and to be free of foil, hair wire, wire screen, dirt, and other foreign substances. Oil and grease not to total more than 1%. Also free from punchings less than 5/8" in size. New can stock subject to arrangement between buyer and seller.

Tough 94.—MIXED NEW ALUMINUM ALLOY CLIPPINGS AND SOLIDS
Shall consist of new, clean, unalloyed and unpainted aluminum scrap of two or more alloys free of 705 series and to be free of foil, hair wire, wire screen, dirt, and other foreign substances. Oil and grease not to total more than 1%.

Trend 95.—SEGREGATED NEW ALUMINUM CASTINGS, FORGINGS AND EXTRUSIONS
Shall consist of new, clean, unalloyed aluminum castings, forgings, and extrusions of one specified alloy only and to be free from sawings, stainless steel, zinc, iron, dirt, oil, grease and other foreign substances.

Trump 96.—ALUMINUM AUTO CASTINGS
Shall consist of clean aluminum castings from automobiles of sufficient size to be readily identified and to be free from iron, dirt, lugs, babbit bushings, brass bushings, and any other foreign materials. Oil and grease not to total more than 2%.

Twist 97.—ALUMINUM AIRPLANE CASTINGS
Shall consist of clean aluminum castings from airplanes and to be free from iron, dirt, brass, babbit, bushings, brass bushings, and any other foreign materials. Oil and grease not to total more than 2%.

ITEMS NOT COVERED SPECIFICALLY IN ALUMINUM SCRAP SPECIFICATIONS SHOULD BE DISCUSSED AND SOLD BY SPECIAL ARRANGEMENTS BETWEEN BUYER AND SELLER.

Aeroma 98.—NEW NICKEL SCRAP
Shall consist of clean new sheet, plate, bar, tube, and any other wrought nickel scrap solids. Nickel minimum 95%. Free of castings, as well as any foreign attachments or other contamination.

Budy 99.—OLD NICKEL SCRAP
Shall consist of old and/or new sheet, plate, bar, tube, and any other wrought nickel scrap solids. Material to contain a minimum of 95% nickel. This grade to be free of castings, soldered, brazed, sweated, or painted material, other metallic coating, foreign attachments, and any other contamination.

Cage 100.—MISCELLANEOUS TYPES OF NICKEL SCRAP
Shall consist of miscellaneous types of nickel scrap, such as: carbonized scrap, castings, stripings, penanns, baskets, and/or turnings. Particulars concerning physical description, assay, and packaging to be agreed upon between buyer and seller.

Dandy 101.—NEW COPPER NICKEL CLIPS AND SOLIDS
Shall consist of clean, new, segregated (normally accepted analysis grades) either 70/30, 80/20, or 90/10 copper nickel tube, pipe, sheet, plate, or other wrought solid forms. Maximum 2% sediment allowable. Any other forms of copper nickel solids such as castings, gates, risers, spalls, etc., packaged separately, may or may not be included, only upon agreement between buyer and seller. Must be free of foreign attachments and any other contamination. Other particulars concerning physical description, assay, and packaging to be agreed upon between buyer and seller.

Dente 102.—SOLDERED COPPER NICKEL SOLIDS
Shall consist of old and/or new, segregated (normally accepted analysis grades) either 70/30, 80/20, or 90/10 copper nickel tube, pipe, sheet, plate, or other wrought solid forms. Maximum 2% sediment allowable. Any other forms of copper nickel solids such as castings, gates, risers, spalls, etc., packaged separately, may or may not be included, only upon agreement between buyer and seller. Must be free of foreign attachments and all other contamination. Other particulars concerning physical description, assay, and packaging to be agreed upon between buyer and seller.

Decoy 104.—COPPER NICKEL SPINNINGS, TURNINGS, BORINGS
Shall consist of clean segregated (normally accepted analysis grades) either 70/30, 80/20, or 90/10 copper nickel turnings, turnings, or turnings. Particulars concerning physical description, assay, and packaging, to be agreed upon between buyer and seller.

Ditch 105.—NEW MONEL CLippINGS AND SOLIDS
Shall consist of clean, new, Regular and/or R-Monel sheet, plate, bar, rod, tube, pipe, or any other wrought scrap, free of any foreign attachments or any other contamination.

Ideal 106.—NEW MONEL SHEET AND SOLIDS
Shall consist of new and/or old clean Regular and/or R-Monel sheet, plate, bar, rod, and all other wrought scrap solids. Must be free of foreign attachments or any other contamination. (To exclude soldered, brazed, and unclean sweated material.)
Indian 107.—K-MONEL RODS AND OTHER SOLIDS
Shall consist of clean K-Monel rods and other solids.

Juno 108.—SOLDERED MONEL SHEET AND SOLIDS
Shall consist of soldered and/or brazed, Regular or Miscellaneous grades of Monel Alloys (with basic minimum 65% Nickel content in any alloy itself), in either wrought or cast form. Must be free of internal seams and edges, nonmetallic inclusions, foreign attachments, and all other contamination. Particulars concerning physical description, assay, and packaging to be agreed upon between buyer and seller.

Lemon 109.—MONEL CASTINGS
Shall consist of various types of clean Monel castings, containing minimum 60% nickel. Must be free of foreign attachments, or any other contamination.

Lemon 110.—MONEL TURNINGS
Shall consist of mixed Monel turnings and borings containing a minimum of 60% nickel content, on a dry basis.

Pekoe 111.—200 SERIES STAINLESS SCRAP SOLIDS
Shall consist of all types of clean AISI Series Stainless Steel Scrap Solids, which contains a maximum of 3% copper, free of foreign attachments and other contamination.

Subai 112.—STAINLESS STEEL SCRAP
Shall consist of clean 18-8 type stainless steel clips and solids containing a minimum 7% nickel, 16% chrome, and have a maximum of 0.5% molybdenum, 0.5% copper, 0.05% phosphorus, and 0.03% sulfur, and otherwise be free of harmful contaminants. Particulars concerning physical description, grading, additional analysis, and preparation to be agreed upon between buyer and seller.

Ultra 118.—STAINLESS STEEL TURNINGS
Shall consist of clean 18-8 type stainless steel turnings containing a minimum of 7% nickel and 16% chrome, and to be free of nonferrous metals, nonmetallics, excessive iron,

IDENTIFICATION CHECK LIST FOR PRECIOUS METALS

Because in the precious metals industry values are derived from the exact analysis obtained from a representative sample, it is not possible to develop a set of specifications similar to those NASMI has established for other nonferrous metals.

This Identification Check List, however, for the first time sets up a general basis for identifying types and grades of precious metal scrap by the scrap processor which will be familiar both to the precious metal refiner and to the plants generating precious metal scrap.

By checking this Identification List, the scrap processor gives the refiner a fairly accurate conception of the material, has on hand and offers a basis for the refiner to quote an estimated price for the material.

Though this Identification Check List is added to NASMI’s specification list, it is to be cautioned that these are not specifications but are to be regarded as a guideline for scrap processors and refiners.

Due to the high value and the constantly changing character of precious metal scrap it is the practice in the industry to require a sample to be submitted before giving refining schedules.

I. SCRAP SOURCES

REFINED SILVER METAL—99.9 PLUS PERCENT

SILVER BEARING MATERIALS:

- Assays
- Assemblies—Electrical Batteries
- Silver/Copper
- Silver/Cadmium
- Silver/Zinc
- Silver/Magnesium
- Bleaching Scrap—Punchings
- Brazing Alloys
- Brushes—Electric Motors
- Brassing
- Chemical Salts
- Clad Bi-Metal Parts
- Cola Silver
- Contacts
- Dental Amalgam Film
- Industrial X-Ray Medical X-Ray
- Lithographic

Jewelry Sweeps
Plates—Paste
Paper—Reproduction
Plated Parts—Electrical—Electronic
Plated Serving Pieces
Plated Utensils
Plated Wire
Powders—Granulated
Purehous
Radios—Electrical
Reeds
Silver Lined Bearings—Diesel Locomotives and Aircraft
Slugs—Plating and Precipitates
Solutions—Plating
Soldering Silver
Tin Lead Alloys

REFINED GOLD METAL—99.9 PLUS PERCENT

REFINED GOLD SPONGE—99.9 PLUS PERCENT

GOLD BEARING MATERIALS:

- Brazing Alloys
- Chromium Parts
- Contacts
- Dental Alloys
- Dental Scrap
- Dental Sweeps and Grindings
- Dieses
- Filled Scrap
- Filters—Flating
- Flakes
- Flashings
- Foil
- Hooks—Plating—Nodules
- Jewelry Scrap
- Jewelry Sweeps and Grindings
- Paints and Paste
- Polishments

Photographic Negatives
Filters—Plating
Flakes—From Agar Solution
Recovery Systems
Heads—Plating—Nodules

REFINED PLATINUM METAL—99.9 PLUS PERCENT

REFINED PLATINUM SPONGE—99.9 PLUS PERCENT

PLATINUM BEARING MATERIALS:

- Catalysts
- Chemicals
- Clay Materials
- Contacts
- Dental Alloys
- Dental Scrap
- Dental Sweeps, Grindings
- Jewelry Scrap

- Laboratory Ware
- Magneto Paints
- Powders and Paste Solutions—Plating
- Spark Plugs—Aircraft
- Thermocouple Wire

REFINED PALLADIUM METAL—99.9 PLUS PERCENT

REFINED PALLADIUM SPONGE—99.9 PLUS PERCENT

334 Bicentennial