

NARI Specifications for Non-Ferrous Metals

CODE WORD ITEM

Apple 1.—DELIVERY

a. Delivery of more or less on the specified quantity up to 1/4 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 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 if unable to agree on the amount of damages, 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 must so 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 2204.6 lbs.

g. If, through embargo, a delivery cannot be made at the time specified, the contract shall remain valid, and shall be completed 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 inadequacy 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 reweighing.

i. When material is such that it can be sorted by hand, consignees cannot 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 negotiations; no replacement of the rejected material to be made.

Upon request of the shipper, rejections 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 them and provided government regulations permit such return. Seller to pay 1¢ 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, uncoated, unalloyed copper wire and cable, not smaller than No. 16 B & S wire gauge, free of burnt wire which is brittle. Hydraulically briquetted 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. Should be free of the following: Excessively leaded, tinned, soldered copper wire; brass and bronze wire; excessive oil content, iron, and non-metallics; copper wire from burning, containing insulation; hair wire; burnt wire which is brittle; and should be reasonably free of ash. Hydraulically briquetted copper wire subject to agreement.

Candy 4.—No. 1 HEAVY COPPER

Shall consist of clean, unalloyed, uncoated copper clippings, punchings, bus bars, commutator segments, and wire not less than 1/8 of an inch thick, free of burnt wire which is brittle; but may include clean copper tubing. Hydraulically briquetted copper subject to agreement.

Cliff 5.—No. 2 COPPER

Shall consist of miscellaneous, unalloyed copper scrap hav-

ing a nominal 96% copper content (minimum 94%) as determined by electrolytic assay. Should be free of the following: Excessively leaded, tinned, soldered copper scrap; brasses and bronzes; excessive oil content, iron and non-metallics; 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 briquetted copper subject to agreement.

Dream 6.—LIGHT COPPER

Shall consist of miscellaneous, unalloyed copper scrap having a nominal 92% copper content (minimum 88%) as determined by electrolytic assay and shall consist of sheet copper, gutters, downspouts, kettles, boilers, and similar scrap. Should be free of the following: Burnt hair wire; copper clad; plating racks; grindings; copper wire from burning, containing insulation; radiators; fire extinguishers; refrigerator units; electrotype shells; screening; excessively leaded, tinned, soldered scrap; brasses and bronzes; excessive oil, iron and non-metallics; and should be reasonably free of ash. Hydraulically briquetted copper subject to agreement. Any items excluded in this grade are also excluded in the higher grades above.

Drink 7.—REFINERY BRASS

Shall contain a minimum of 61.3% copper and maximum 5% iron and to consist of brass and bronze solids and turnings, and alloyed and contaminated copper scrap. Shall be free of insulated wire, grindings, electrotype shells and non-metallics. Hydraulically briquetted material subject to agreement.

Drove 8.—COPPER-BEARING SCRAP

Shall consist of miscellaneous copper-containing skimmings, grindings, ashes, iron brass and copper, residues and slags. Free of insulated wires; copper chlorides; unprepared tangled material; large motors; pyrophoric material; asbestos brake linings; furnace bottoms; high lead materials; graphite crucibles; and noxious and explosive materials. Fine powdered material by agreement. Hydraulically briquetted material subject to agreement.

Ebony 9.—COMPOSITION OR RED BRASS

Shall consist of red brass scrap, valves, machinery bearings and other machinery parts, including miscellaneous castings made of copper, tin, zinc, and/or lead. Should be free of semi-red brass castings (78% to 81% copper); railroad car boxes and other similar high-lead alloys; cocks and faucets; gates; pot pieces; ingots and burned brass; aluminum and manganese bronzes; iron and non-metallics. No piece to measure more than 12" over any one part or weigh over 100 lbs.

Enerv 10.—RED BRASS COMPOSITION TURNINGS

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

Eider 11.—GENUINE BABBITT-LINED BRASS BUSHINGS

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

Eland 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 Fourdrinier 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 stranding.

Elias 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 11%, 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 carboxes.

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%.

Fence 17.—UNLINED STANDARD RED CAR BOXES (CLEAN JOURNALS)

Shall consist of standard unlined and/or sweated railroad boxes and unlined and/or sweated car journal bearings,

CODE WORD	ITEM
	free of yellow boxes and iron-backed boxes.
<i>Ferry</i> 18.—	LINED STANDARD RED CAR BOXES (LINED JOURNALS) Shall consist of standard babbitt-lined railroad boxes and/or babbitt-lined car journal bearings, free of yellow boxes and iron-backed boxes.
<i>Grape</i> 19.—	COCKS AND FAUCETS Shall consist of mixed clean red and yellow brass, including chrome or nickel-plated, free of gas cocks, beer faucets, and aluminum and zinc base die cast material, and to contain a minimum of 35% semi-red.
<i>Greet</i> 20.—	MIXED BRASS SCREENS To consist of clean mixed-copper, brass and bronze screens, and to be free of excessively dirty and painted material.
<i>Honey</i> 21.—	YELLOW BRASS SCRAP Shall consist of brass castings, rolled brass, rod brass, tubing and miscellaneous yellow brasses, including plated brass. Must be free of manganese-bronze, aluminum-bronze, unsweated radiators or radiator parts, iron, excessively dirty and corroded materials.
<i>Ivory</i> 22.—	YELLOW BRASS CASTINGS Shall consist of yellow brass castings in crucible shape, no piece to measure more than 12 inches over any one part; and shall be free of brass forgings, silicon bronze, aluminum bronze and manganese bronze, and not to contain more than 15% nickel plated material.
<i>Knife</i> 23.—	OLD ROLLED BRASS Shall consist of old pieces of yellow sheet brass and yellow light tubing brass, free from solder, tinned and nickel plated material, iron, paint and corrosion, rod brass and condenser tubes.
<i>Label</i> 24.—	NEW BRASS CLIPPINGS Shall consist of the cuttings of new unleaded yellow brass sheet or plate, to be clean and free from foreign substances and not to contain more than 10% of clean brass punchings under 1/4". To be free of Muntz metal and naval brass.
<i>Lace</i> 25.—	BRASS SHELL CASES WITHOUT PRIMERS Shall consist of clean fired 70/30 brass shell cases free of primers and any other foreign material.
<i>Lady</i> 26.—	BRASS SHELL CASES WITH PRIMERS Shall consist of clean fired 70/30 brass shell cases containing the brass primers and which contain no other foreign material.
<i>Lake</i> 27.—	BRASS SMALL ARMS AND RIFLE SHELLS, CLEAN FIRED Shall consist of clean fired 70/30 brass shells free of bullets, iron and any other foreign material.
<i>Lamb</i> 28.—	BRASS SMALL ARMS AND RIFLE SHELLS, CLEAN MUFFLED (POPPED) Shall consist of clean muffled (popped) 70/30 brass shells free of bullets, iron and any other foreign material.
<i>Lark</i> 29.—	YELLOW BRASS PRIMER Shall consist of clean yellow brass primers, burnt or unburnt. Free of iron, excessive dirt, corrosion and any other foreign material.
<i>Maize</i> 30.—	MIXED NEW NICKEL SILVER CLIPPINGS Shall consist of one or more nickel silver alloys and the range of nickel content to be specified, free of chrome or any other plating material. Leaded nickel silver clippings should be packed and sold separately. Not to contain more than 10% of clean punchings under 1/4 inch.
<i>Major</i> 31.—	NEW NICKEL SILVER CLIPPINGS AND SOLIDS Shall consist of new, clean nickel silver clippings, plate, rod and forgings, and other rolled shapes, free of chrome or any other plating material. Must be sold on nickel content specifications such as 10% — 12% — 15% — 18% — 20%. Leaded nickel silver clippings should be packed and sold separately. A description as to its physical characteristics should be made in offering all nickel silver material.
<i>Malar</i> 32.—	NEW SEGREGATED NICKEL SILVER CLIPPINGS Shall consist of one specified nickel silver alloy. Not to contain more than 10% of clean punchings under 1/4 inch.
<i>Malic</i> 33.—	OLD NICKEL SILVER Shall consist of Old Nickel Silver Sheet, Pipe, Rod, Tubes, Wire, Screen, soldered or unsoldered. Must not be trimmed seams alone and it is also to be free of foreign substances, iron rimmed material or other metals.
<i>Melon</i> 34.—	BRASS PIPE Shall consist of brass pipe free of plated and soldered materials or pipes with cast brass connections. To be sound, clean pipes free of sediment and condenser tubes.

CODE WORD	ITEM
<i>Naggy</i> 35.—	NICKEL SILVER CASTINGS To be packed and sold separately.
<i>Niece</i> 36.—	NICKEL SILVER TURNINGS To be sold by sample or analysis.
<i>Night</i> 37.—	YELLOW BRASS ROD TURNINGS Shall consist of strictly rod turnings, free of aluminum, manganese, composition, Tobin and Muntz metal turnings; not to contain over 3% free iron, oil or other moisture; to be free of grindings and babbitts; to contain not more than 0.30% tin and not more than 0.15% alloyed iron.
<i>Noble</i> 38.—	NEW YELLOW BRASS ROD ENDS Shall consist of new, clean rod ends from free turning brass rods or forging rods, not to contain more than 0.30% tin and not more than 0.15% alloyed iron. To be free of Muntz metal and naval brass or any other alloys. To be in pieces not larger than 12" and free of foreign matter.
<i>Nomad</i> 39.—	YELLOW BRASS TURNINGS Shall consist of yellow brass turnings, free of aluminum, manganese and composition turnings; not to contain over 3% of free iron, oil or other moisture; to be free of grindings and babbitts. To avoid dispute, to be sold subject to sample or analysis.
<i>Ocean</i> 40.—	MIXED UNSWEATED AUTO RADIATORS Shall consist of mixed automobile radiators, to be free of aluminum radiators, and iron finned radiators. All radiators to be subject to deduction of actual iron. The tonnage specification should cover the gross weight of the radiators, unless otherwise specified.
<i>Pales</i> 41.—	ADMIRALTY BRASS CONDENSER TUBES Shall consist of clean sound Admiralty condenser tubing which may be plated or unplated, free of nickel alloy, aluminum alloy, and corroded material.
<i>Pallu</i> 42.—	ALUMINUM BRASS CONDENSER TUBES Shall consist of clean sound condenser tubing which may be plated or unplated, free of nickel alloy, and corroded material.
<i>Palms</i> 43.—	MUNTZ METAL TUBES Shall consist of clean sound Muntz metal tubing which may be plated or unplated, free of nickel alloy, aluminum alloy, and corroded material.
<i>Pants</i> 44.—	PLATED ROLLED BRASS Shall consist of plated brass sheet, pipe, tubing, and reflectors, free of soldered, tinned, corroded, and aluminum-painted material, Muntz metal and Admiralty tubing, and material with cast brass connections.
<i>Parch</i> 45.—	MANGANESE BRONZE SOLIDS Shall have a copper content of not less than 55%, a lead content of not more than 1%, and shall be free of Aluminum bronze and Silicon bronze.
<i>Racks</i> 46.—	SCRAP LEAD — SOFT Shall consist of clean soft scrap lead, free of all foreign materials such as drosses, battery lead, lead covered cable, hard lead, collapsible tubes, foil, type metals, zinc, iron and brass fittings, dirty chemical lead. Free of radioactive materials.
<i>Radio</i> 47.—	MIXED HARD/SOFT SCRAP LEAD Shall consist of clean lead solids, free of foreign materials, such as drosses, battery lead, lead covered cable, collapsible tubes, type metals, zinc, iron and brass fittings, dirty chemical lead. Free of radioactive materials.
<i>Rails</i> 48.—	BATTERY PLATES If cells (plates, separators, and lugs) or battery plates, must be reasonably free of rubber. May be bought and sold by assay or as agreed between buyer and seller.
<i>Rains</i> 49.—	DRAINED WHOLE BATTERIES Batteries to be free of liquid and extraneous material content. Aircraft (aluminum or steel cased) and other special batteries subject to special agreement.
<i>Rakes</i> 50.—	BATTERY LUGS Shall be free from battery plates, rubber and foreign material. A minimum of 97% metallic content is required.
<i>Ranks</i> 51.—	PEWTER Shall consist of tableware and soda-fountain boxes but should contain a minimum of 84% tin. Siphon tops to be accounted for separately. Material must be free of brass, zinc, and other foreign metals.
<i>Ranch</i> 52.—	BLOCK TIN Block Tin must assay minimum of 98% tin, and to be free of liquids, solder, and brass connections, pewter, pumps, pot pieces, dirt.

CODE WORD ITEM

- Raves 53.—HIGH TIN BASE BABBITT**
 Shall contain a minimum of 78% tin and be free of brassy or zincy metals.
- Relay 54.—LEAD COVERED COPPER CABLE**
 Free of armored covered cable, and foreign material.
- Rents 55.—LEAD DROSS**
 Should be clean and reasonably free of foreign matter, iron, dirt, harmful chemicals or other metals. Free of radioactive materials. Assay basis, or as agreed between buyer and seller. Other metals present such as antimony, tin, etc. to be accounted for as agreed between buyer and seller.
- Ropes 56.—LEAD WEIGHTS**
 May consist of lead balances with or without iron, as may be specified. Free of foreign materials.
- Roses 57.—MIXED COMMON BABBITT**
 Shall consist of lead base bearing metal containing not less than 8% tin, free from Alloys Metal, Ornamental, Antimonial and Type Metal. Must be free from all zincy and excessive copper in the alloy.
- Saves 58.—OLD ZINC DIE CAST SCRAP**
 Shall consist of miscellaneous old zinc base die castings, with or without iron and other foreign attachments. Must be free of borings, turnings, dross pieces, chunks, melted pieces and skimmings. All unmeltables, dirt, foreign attachments, and volatile substances (such as rubber, cork, plastic, grease, etc.) are deductible. Material containing in excess of 30% iron will not constitute good delivery.
- Scabs 59.—NEW ZINC DIE CAST SCRAP**
 Shall consist of new or unused, clean, zinc base die castings. Castings to be unplated, unpainted, and free from corrosion.
- Scope 60.—NEW PLATED ZINC DIE CAST SCRAP**
 Shall consist of new or unused clean, plated zinc base die castings, free from corrosion.
- Scout 61.—ZINC DIE CAST AUTOMOTIVE GRILLES**
 Shall consist of clean, old or used zinc base die cast automotive grilles, free from soldered material. All foreign attachments and extraneous material are deductible.
- Score 62.—OLD SCRAP ZINC**
 Shall consist of clean dry scrap zinc, such as sheets, jar lids, clean unalloyed castings and anti-corrosion plates. Borings and turnings are not acceptable. Material must not be excessively corroded or oxidized. All foreign attachments and extraneous materials are deductible.
- Screen 63.—NEW ZINC CLIPPINGS**
 Shall consist of any new pure zinc sheets or stampings free from corrosion. To contain no foreign material or attachments. Printers zinc, such as engravers zinc, lithograph sheets and addressograph plates subject to special arrangements. Printers zinc to be free of routings.
- Scull 64.—ZINC DIE CAST SLABS OR PIGS**
 Shall consist of melted zinc base die cast materials, in smooth clean solid slabs or pigs. Material to be free from drosses and to contain a minimum zinc content of 90%. To contain a maximum of 0.1% nickel and maximum of 1% lead. Blocks are acceptable upon mutual agreement.
- Scribe 65.—CRUSHED CLEAN SORTED FRAGMENTIZERS DIE CAST SCRAP, AS PRODUCED FROM AUTOMOBILE FRAGMENTIZERS.**
 To be clean, free of dirt, oil, glass, rubber, and trash. To contain a maximum of 5% unmeltables such as free iron, copper, aluminum and other metals.
- Scroll 66.—UNSORTED FRAGMENTIZERS DIE CAST SCRAP.**
 Material to contain 65% zinc-bearing scrap. Trash, dirt, glass, rubber, oil, iron and other unmeltables not to exceed 5%. Quality to be determined by mutual agreement between buyer and seller.
- Scrub 67.—HOT DIP GALVANIZERS SLAB ZINC DROSS (Batch Process)**
 Shall consist only of galvanizers unsweated zinc dross in slab form from hot dip galvanizing (Batch Process) with a minimum zinc content of 92% and shall be free of skimmings and tramp iron. Broken pieces under 2" in diameter shall not exceed 10% of the weight of each shipment. Slabs shall not weigh over 100 pounds each. Material from continuous galvanizing operation is not acceptable. Blocks are acceptable upon mutual agreement.
- Seal 68.—CONTINUOUS LINE GALVANIZING SLAB ZINC TOP DROSS.**
 Shall consist of unsweated zinc dross removed from the top

CODE WORD ITEM

- 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 skimmings. 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 unsweated 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 skimmings. 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 unsweated, unfluxed, shiny, smooth, metallic and free from corrosion or oxidation. Should be poured in molds or in small mounds weighing not over 75 pounds each. Zinc shall be minimum of 85%.
- 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, clippings and/or aluminum sheet cuttings, free from oil and grease, foil and any other foreign substances and from punchings less than 1/2" in size.
- Taboo 72.—MIXED LOW COPPER ALUMINUM CLIPPINGS AND SOLIDS**
 Shall consist of new, clean, uncoated and unpainted low copper aluminum scrap of two or more alloys and to be free of foil, hair wire, wire screen, dirt, and other foreign substances. Grease and oil not to total more than 1%. Also free from punchings less than 1/2" in size. New can stock subject to arrangement between buyer and seller.
- Tabor 73.—MIXED OLD ALLOY SHEET ALUMINUM**
 Shall consist of clean old alloy sheet aluminum of two or more alloys and to be free of 70S series, foil, venetian blinds, castings, hair wire, screen wire, food or beverage containers, pie plates, dirt, and other foreign substances. Oil and grease not to total more than 1%. Up to 10% painted sidings and awnings permitted.
- Taint 74.—SCRAP SHEET AND SHEET UTENSIL ALUMINUM**
 Shall consist of clean, unpainted old 2S or 3S 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%.
- Take 75.—NEW ALUMINUM CAN STOCK**
 Shall consist of new low copper aluminum can stock and clippings, 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%.
- Talc 76.—OLD CAN STOCK**
 Shall consist of clean old aluminum cans, decorated or clear, free of iron, dirt, liquid and/or other foreign contamination.
- Tale 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 other types of foreign contamination.
- Talent 78.—COATED SCRAP**
 Shall consist of awnings, venetian blinds, vinyl, plastic, etc. Shall be subject to special arrangements between buyers 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.
- Tall 80.—E. C. ALUMINUM NODULES**
 Shall consist of clean E. C. aluminum, chopped or shredded, free of screening, hair-wire, iron, insulation, copper and other foreign contamination. Must be free of minus 20 mesh material. Must contain 99.45% aluminum content.
- Talon 81.—NEW PURE ALUMINUM WIRE AND CABLE**
 Shall consist of new, clean, unalloyed aluminum wire or cable free from hair wire, wire screen, iron, insulation and any other foreign substance.
- Taste 82.—OLD PURE ALUMINUM WIRE AND CABLE**

CODE WORD ITEM

Shall consist of old, unalloyed aluminum wire or cable containing not over 1% free oxide or dirt and free from hair wire, wire screen, iron, insulation and any other foreign substance.

Tarry 83.—ALUMINUM PISTONS

(a) Clean Aluminum Pistons

Shall consist of clean aluminum pistons 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.

Teens 84.—SEGREGATED ALUMINUM BORINGS AND TURNINGS

Shall consist of clean, uncorroded aluminum borings and turnings of one specified alloy only 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 or containing highly flammable cutting compounds will not constitute good delivery.

Telic 85.—MIXED ALUMINUM BORINGS AND TURNINGS

Shall consist of clean, uncorroded 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 or containing highly flammable cutting compounds will not constitute good delivery. To avoid dispute should be sold on basis of definite maximum zinc, tin and magnesium content.

Tense 86.—MIXED ALUMINUM CASTINGS

Shall consist of all clean aluminum castings which may contain auto and airplane castings but no ingots, and to be free of iron, dirt, brass, babbitt and any other foreign materials. Oil and grease not to total more than 2%.

Tepid 87.—WRECKED AIRPLANE SHEET ALUMINUM

Should be sold on recovery basis or by special arrangements with purchaser.

Terse 88.—NEW ALUMINUM FOIL

Shall consist of clean, new, pure, uncoated, unalloyed aluminum foil, free from anodized foil, radar foil and chaff, paper, plastics, or any other foreign materials. Hydraulically briquetted material by arrangement only.

Testy 89.—OLD ALUMINUM FOIL

Shall consist of clean, old, pure, uncoated, unalloyed aluminum foil, free from anodized foil, radar foil and chaff, paper, plastics, or any other foreign materials. Hydraulically briquetted material by arrangement only.

Thigh 90.—ALUMINUM GRINDINGS

Should be sold on recovery basis or by special arrangements with purchaser.

Thirl 91.—ALUMINUM DROSSES, 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 sweated or melted into a form or shape such as an 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, uncoated and unpainted aluminum scrap of one specified aluminum 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 1/2" 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, uncoated 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

CODE WORD ITEM

1%. Also free from punchings less than 1/2" in size. New Can Stock subject to arrangement between buyer and seller.

Tread 95.—SEGREGATED NEW ALUMINUM CASTINGS, FORCINGS AND EXTRUSIONS

Shall consist of new, clean, uncoated 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 all clean automobile aluminum castings of sufficient size to be readily identified and to be free from iron, dirt, brass, babbitt 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, babbitt, 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.

Aroma 98.—NEW NICKEL SCRAP

Shall consist of clean new sheet, plate, bar, tube, and any other wrought nickel scrap solids. Nickel minimum 99%. Free of castings, as well as any foreign attachments or other contamination.

Burly 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 98% nickel. This grade to be free of castings, soldered, brazed, sweated, or painted material, other metallic coating, foreign attachments, and any other contamination.

Cache 100.—MISCELLANEOUS TYPES OF NICKEL SCRAP

Shall consist of miscellaneous types of nickel scrap, such as carbonized scrap, castings, strippings, peelings, baskets, and/or turnings. Particulars regarding physical description, assay, and packaging to be agreed on between buyer and seller.

Dandy 101.—NEW CUPRO NICKEL CLIPS AND SOLIDS

Shall consist of clean, new, segregated (normally accepted analysis grades) either 70/30, 80/20, or 90/10 cupro nickel tube, pipe, sheet, plate, or other wrought solid forms. Must be free of foreign attachments or any other contamination.

Daunt 102.—CUPRO NICKEL SOLIDS

Shall consist of old, and/or new, segregated (normally accepted analysis grades) either 70/30, 80/20, or 90/10 cupro nickel tube, pipe, sheet, plate, or other wrought solid forms. Maximum 2% sediment allowable. Any other forms of cupro nickel solids such as castings, gates, risers, spills, 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, analysis and packaging to be agreed upon between buyer and seller.

Delta 103.—SOLDERED CUPRO NICKEL SOLIDS

Shall consist of segregated (normally accepted analysis grades) either 70/30, 80/20, or 90/10 cupro nickel solids, soldered, brazed, or sweated, must be free of trimmed seams and edges and all other contamination.

Decoy 104.—CUPRO NICKEL SPINNINGS, TURNINGS, BORINGS

Shall consist of clean segregated (normally accepted analysis grades) either 70/30, 80/20, or 90/10 cupro nickel spinings, turnings, or borings. Particulars concerning physical description, analysis, packaging, to be agreed upon between buyer and seller.

Hitch 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.—OLD MONEL SHEET AND SOLIDS

Shall consist of new and/or old clean Regular and/or R-Monel sheet, pipe, plate, 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.)

CODE WORD ITEM

- Indian 107.—K-MONEL RODS AND OTHER SOLIDS**
Shall consist of clean K-Monel rods and other solids.
- Junto 108.—SOLDERED MONEL SHEET AND SOLIDS**
Shall consist of soldered and/or brazed, Regular or Miscellaneous grades of Monel Alloys (with basic minimum 63% Nickel contained in any alloy itself), in either wrought or cast form. Must be free of trimmed seams and edges, non-metallic filling, 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, assaying minimum 60% nickel. Must be free of foreign attachments, or any other contamination.
- Lemur 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 STEEL SCRAP SOLIDS**
Shall consist of all types of clean AISI Series Stainless Steel Scrap Solids, which contain a maximum of .5% copper, free of foreign attachments and other contamination.
- Sabot 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 .50% molybdenum, .5% copper, .045% phosphorous, and .03% sulfur, and otherwise free of harmful contaminants. Particulars concerning physical description, grading, additional analysis, and preparation to be agreed upon between buyer and seller.
- Ultra 113.—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, non-metallics, excessive iron,

CODE WORD ITEM

- oil and other contaminants. Particulars concerning physical description, assay, packaging to be agreed upon between buyer and seller.
- Rusten 114.—11-14% CHROME STAINLESS SCRAP**
Straight chrome stainless scrap shall contain 11-14% chrome, phosphorous and sulphur .03% maximum, and shall not contain over .50% nickel and otherwise be free from harmful contaminants. Material to be prepared to individual consumer's specifications.
- Rusthirty 115.—14-18% CHROME STAINLESS SCRAP**
Straight chrome stainless scrap shall contain 14-18% chrome, phosphorous and sulphur .03% maximum, and shall not contain over .50% nickel and otherwise be free from harmful contaminants. Material to be prepared to individual consumer's specifications.
- Vaunt 116.—EDISON BATTERIES**
To be sold free of crates, copper terminal connectors, and drained free of excess liquid, to be free of type "B" batteries.

ANY OTHER PARTICULARS IN THE NICKEL ALLOY GROUP CONCERNING PHYSICAL DESCRIPTION, ASSAY, AND PACKAGING TO BE AGREED UPON BETWEEN BUYER AND SELLER.

GENERAL NOTE

It has been the purpose in revising these specifications to provide for those materials which are most frequently dealt in. Any items for which classifications are not specified should be subject to negotiations between buyer and seller.

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 he 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 circular, 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:

- | | |
|--------------------------|--------------------------|
| Anodes | Jewelry Sweeps |
| Assemblies—Electrical | Paints—Paste |
| Batteries | Paper—Reproduction |
| Silver/Copper | Plated Parts—Electrical— |
| Silver/Cadmium | Electronic |
| Silver/Zinc | Plated Serving Pieces |
| Silver/Magnesium | Plated Utensils |
| Blanking Scrap—Punchings | Plated Wire |
| Brazing Alloys | Powders—Granulated |
| Brushes—Electric Motors | Punchouts |
| Bullion | Relays—Electrical |
| Chemical Salts | Resins |
| Clad Bi-Metal Parts | Silver Lined Bearings— |
| Coin Silver | Diesel Locomotives |
| Contacts | and Aircraft |
| Dental Amalgam | Sludges—Plating and |
| Film | Precipitates |
| Industrial X-Ray | Solutions—Plating |
| Medical X-Ray | Sterling Silver |
| Lithographic | Tin Lead Alloys— |

- | | |
|--------------------------|--------------|
| Photographic Negatives | Contaminated |
| Filters—Plating | Turnings |
| Flake—From Hypo Solution | Wave Guides |
| Recovery Systems | Wiping Rags |
| Hooks—Plating—Nodules | |

REFINED GOLD METAL—99.9 PLUS PERCENT

REFINED GOLD SPONGE—99.9 PLUS PERCENT

GOLD BEARING MATERIALS:

- | | |
|-----------------------|-------------------------|
| Brazing Alloys | Placer Gold |
| Cladmetal Parts | Plated Parts—Electrical |
| Contacts | Plated Wire |
| Dental Alloys | Powders |
| Dental Scrap | Printed Circuit Boards |
| Dental Sweeps and | Printed Circuit Boards |
| Grindings | with Components |
| Diodes | Punchouts |
| Filled Scrap | Resins—Plating |
| Filters—Plating | Salts—Chemical |
| Flakes | Sludges—Plating |
| Flashings | Solutions |
| Foil | Sponge |
| Hooks—Plating—Nodules | Tin Lead Alloys— |
| Jewelry Scrap | Contaminated |
| Jewelry Sweeps and | Transistors |
| Grindings | Wiping Rags |
| Paints and Paste | Wire |
| Peelings | |

REFINED PLATINUM METAL—99.9 PLUS PERCENT

REFINED PLATINUM SPONGE—99.8 PLUS PERCENT

PLATINUM BEARING MATERIALS:

- | | |
|--------------------------|----------------------|
| Catalysts | Jewelry Sweeps |
| Chemicals | Laboratory Ware |
| Clad Materials | Magneto Points |
| Contacts | Powders and Paste |
| Dental Alloys | Solutions—Plating |
| Dental Scrap | Spark Plugs—Aircraft |
| Dental Sweeps, Grindings | Thermocouple Wire |
| Jewelry Scrap | |

REFINED PALLADIUM METAL—99.8 PLUS PERCENT

REFINED PALLADIUM SPONGE—99.8 PLUS PERCENT