



# **SCRAP SPECIFICATIONS & TERMS OF DELIVERY**

**April 12, 2010**

**SSAB Alabama Inc.**

12400 Highway 43 North  
Axis, AL 36505

T +1 251 662 4453  
F +1 251 662 4367

Toll-free + 1 888 592 7070  
**[www.ssab.com](http://www.ssab.com)**

## Table of Contents

SECTION 1: TERMS OF UNDERSTANDING .....	3
1 Truck Driver Safety Requirements: .....	3
2 Conditions of Contract: .....	3
3 Acceptance of Purchase Order: .....	3
4 Taxes: .....	3
5 Advance Shipping Notice Mandatory: .....	3
6 Price Inclusive: .....	3
7 Payment: .....	4
8 Shipping Containers: .....	4
9 Truck Shipments: .....	4
10 Rail Shipments: .....	4
11 Weighing and Grading of Scrap: .....	5
12 Rejected Scrap: .....	5
13 Rejection for Radioactive Contamination: .....	5
SECTION 2: GENERAL REQUIREMENTS FOR PREPARED FERROUS SCRAP .....	6
SECTION 3: SCRAP SPECIFICATIONS .....	
1 Material Name: #1-1/2 Bundles .....	8
2 Material Name: Busheling .....	9
3 Material Name: Shredded .....	9
4 Material Name: Machine Shop Turnings .....	10
5 Material Name: 5 Foot Plate and Structural .....	10
6 Material Name: 3 Foot Plate and Structural .....	11
7 Material Name: #1 Heavy Melting Steel .....	11
8 Material Name: #2 Heavy Melting Steel .....	12
9 Material Name: Mixed #1 and #2 Heavy Melting Steel .....	12
10 Material Name: # 1 Railroad Heavy Melting Steel .....	13
11 Material Name: Beach/Blast Furnace Iron .....	14
12 Material Name: #1 Dealer Bundles .....	14
13 Material Name: #1 Factory Bundles .....	15
14 Material Name: Machine Cast Iron .....	15



## **SECTION 1**

### **TERMS OF UNDERSTANDING**

#### **1. Truck Driver Safety Requirements**

SSAB requires everyone inside the fenced in mill enclosure to wear hard hat, safety glasses, safety shoes, long sleeve shirts and long pants (coveralls are acceptable). Drivers who fail to comply with these rules will be turned away or escorted off site.

**2. Conditions of Contract:** SSAB General Terms and Conditions of Contract apply and take precedence over any other agreement between the parties. These SSAB General Terms and Conditions of Contract must be signed before business can be conducted. This will be accomplished by execution of a periodic agreement that is required before any business transaction may take place.

**3. Acceptance of Purchase Order:** SSAB shall issue a Purchase Order for all scrap purchases. The Supplier accepts the specified delivery, price, quantity, grade and SSAB's General Terms and Conditions of Contract unless a formal written exception has been submitted to and accepted by SSAB's scrap buyer.

**4. Taxes:** Sales taxes do not apply to the purchase of Scrap materials.

**5. Advance Shipping Notice Mandatory:** Before shipping any scrap to SSAB by barge or rail, Supplier shall provide an advance shipping notice by email, containing the following information to the attention of [mobile.scrap@ssab.com](mailto:mobile.scrap@ssab.com).

- The car or barge number;
- The shipping date;
- The grade of scrap shipped;
- The SSAB Purchase Order number against which shipment was made;
- The name of the Shipper;
- The city and state of the yard where shipment originated;
- The name of the broker if different from the name of the Shipper.

Should Supplier fail to provide the shipping notice in compliance with this paragraph, a \$200 penalty will be assessed per incident if material arrives prior to SSAB receiving the shipping notice. In addition the material will be assigned to the intended Purchase Order or the current Purchase Order, whichever is the lower priced, at SSAB's sole discretion.

**6. Price Inclusive:** Unless otherwise specified in the Purchase Order, the stated price shall include all duties, levies, freight charges, packing charges, insurance charges and any other charges whatsoever in connection with the supply of the Product. Supplier shall provide all properly completed customs invoices, declarations and evidence of export/import.



- 7. Payment:** Unless otherwise specified SSAB will self-invoice based on weights determined by SSAB truck and rail scales. SSAB shall pay for all scrap accepted and unloaded by SSAB in accordance with the terms set forth in the Purchase Order. Payments to Supplier will be accompanied by a summary showing how the amount paid Supplier was determined by SSAB, SSAB's Purchase Order number, and the barge, car or truck number.
- 8. Shipping Containers:** Unless Supplier obtains prior written permission from SSAB's Purchasing Department, all scrap shipped by rail or truck must be delivered in open top rail cars or self-dumping trailers. All trucks, cars, or barges delivering scrap to SSAB must be cleaned prior to being loaded with scrap. All rail cars must be loaded in accordance with the Open Top Loading Rules, Section 2, and Figure 87 of the American Association of Railroads.
- 9. Truck Shipments:** All of the following apply to truckload shipments of scrap:

  - All shipments must contain a minimum of 40,000 pounds of scrap, unless Supplier receives prior written approval from the SSAB Purchasing Department.
  - No trucks will be accepted by SSAB with a gross vehicle weight exceeding 80,000 pounds unless the Supplier has an Alabama permit (Alabama only). A 1% (800 lb.) variance will be allowed where ice and snow conditions exist.
  - A truck will not be weighed in and allowed to dump unless the driver gives to the SSAB Scale Clerk all of the following information IN WRITING:
    - The SSAB Purchase Order Number against which delivery is being made
    - Grade of scrap being delivered
    - Name and location of Shipper
    - Origin of scrap if different from Shipper's location
    - Name of broker, if different from name of Shipper.
  - Only drivers will be allowed entrance into SSAB's plant site and Scrap Yard for unloading purposes. Riders accompanying truck drivers must wait off plant site and will not be allowed to enter the SSAB Scrap Yard.
  - If, at the time of delivery, the scrap in a truck is frozen or otherwise cannot be dislodged, SSAB or its Contractor may, at the driver's request, rock or bump the truck with a crane to dislodge the scrap so it can be discharged. If the driver requests SSAB's Contractor to use its crane to unload scrap from the truck, SSAB shall back charge Supplier the unloading cost. Supplier shall indemnify SSAB and its Contractor against all claims, losses or damages, including legal fees that arise there from, regardless of whether such damage was caused, in whole or in part, by the negligence of SSAB or its Contractor.
- 10. Rail Shipments:** Unless otherwise specified on the face of the Purchase Order, all rail shipments must be forwarded "freight collect", with the freight bill for the account of SSAB. The following information must be indicated on all copies of the Shipper's bill of lading (including, without limitation, the copy of the bill of lading submitted to the railroad at origin):



- The number of the Purchase Order to which the shipment relates;
- The name of the Shipper and city of origin (which shall be consistent with the name of the Shipper and shipping point specified in the Purchase Order);
- The grade of scrap being shipped;
- A recitation that the shipment is being forwarded freight collect to SSAB;
- SSAB's contract number with the applicable railroad as identified in the Purchase Order;
- The routing specified in the Purchase Order; and
- The notation, "Do not weigh. Destination weights applicable".

**11. Weighing and Grading of Scrap:** SSAB shall weigh and grade the scrap on receipt at SSAB's facility. Supplier agrees that SSAB's net weights and grading of the scrap shall be final and binding on Supplier (such weights and grading shall control over other weights and grading of scrap), and that SSAB shall use its net weights and grading in calculating the amount to be paid to Supplier for the delivered scrap. If SSAB chooses to accept a scrap shipment that does not conform to the specifications of the Purchase Order instead of electing to reject all or part of such shipment, SSAB shall notify the Supplier of the appropriate downgrade for such scrap. SSAB reserves the right to take deducts (based on visual estimates) for loads that contain excessive amounts of dirt, mud or other non-metallics.

**12. Rejected Scrap:** In addition to any other rights and remedies which it may have, SSAB may cancel the supply of the Scrap or any part thereof because of Supplier's failure to comply with any of the terms or conditions herein or as part of any future Purchase Order (including without limitation, for late delivery of Scrap, delivery of Scrap which is defective or which does not conform with the Purchase Order, or failure to provide SSAB, upon request, with reasonable assurances of future performance). If SSAB rejects any scrap shipment in whole or in part, SSAB will, without prejudice to or waiver of any other rights or remedies SSAB may have under the Purchase Order, at law or in equity:

- Charge the Supplier for all transportation and/or reloading costs incurred by SSAB with respect to such nonconforming Scrap (Supplier shall be responsible for and indemnify SSAB for any claims, losses or damage caused to the transport vehicle during the course of reloading, including legal fees).
- Impose a rejection fee charging the Supplier \$100 per truck, \$750 per railcar, and \$1,500 per barge as compensation for SSAB's handling, switching, administrative and other costs with respect to the rejected scrap.
- Recover from Supplier and/or other responsible parties all incidental or consequential damages arising from Supplier's breach of the Purchase Order that result in a rejection of any Scrap shipment, in whole or in part by SSAB.

**13. Rejection for Radioactive Contamination:** In addition to the above, if a load is rejected due to radioactive contamination of the Scrap, SSAB may delay return of rejected Scrap containing radioactive materials, to comply with governmental regulations with respect to the handling, transportation, and disposition of radioactive



materials. In addition, the Supplier will be charged \$500 per incident to compensate SSAB for handling, storage, and administrative and legal costs with respect to the rejected radioactive scrap.

## **SECTION 2**

### **GENERAL REQUIREMENTS FOR PREPARED FERROUS SCRAP**

Suppliers shall not deviate from these specifications without the prior written approval of SSAB. These general requirements apply to all scrap grade specifications.

1. Scrap delivered must be free of:

- 1.1. Excessive dirt, rust, or other non-metallic matter including but not limited to wood, rubber, and cement as determined by SSAB in its sole and absolute discretion.
- 1.2. Combustible materials, chemicals or organic substances, including but not limited to rubber, plastic, fabric, wood, oil, lubricants, and hand tools with plastic or wooden handles
- 1.3. Any substance classified by any federal, state, province or local regulatory agency as hazardous including but not limited to hazardous material, hazardous waste, or medical waste.
- 1.4. Non-ferrous material, including but not limited to:
  - 1.4.1. Lead (some examples are lead pipe, lead balancing weights for wheels, automotive batteries, babbitt bearings, solder, and terne plate).
  - 1.4.2. Tin (an example is tin plate).
  - 1.4.3. Copper and Brass (some examples are copper wound motors starters, alternators, generators, wire, and tubing).
  - 1.4.4. Aluminum (some examples are aluminum wound motors, motors, wire and tubing).
  - 1.4.5. Mercury (some examples are automotive convenience switches or mercury containing instrumentation).
- 1.5. Cast Iron (some examples are: motor blocks, railroad brake shoes, soil pipe, cast iron radiators).
- 1.6. Closed containers capable of holding any gas (including air) or liquid. Examples are:
  - 1.6.1. Pressure vessels that have not had both ends cut off
  - 1.6.2. Pipe sections capped at one or both ends, or crimped on one or both ends having been processed by a shear
  - 1.6.3. Shock absorbers that have not been cut in half
  - 1.6.4. Hydraulic cylinders that have not been cut in half
  - 1.6.5. Drive shafts that have not been cut in half



- 1.6.6. Gas storage and other tanks (including household propane tanks) that have not had both ends cut off
- 1.6.7. Transmissions that have not been cut in half
- 1.6.8. Torque converters that have not been cut in half
- 1.6.9. Fire extinguishers that have not been cut in half
- 1.6.10. Aerosol cans that have not been depressurized and crushed.
- 1.6.11. **NOTE: All such closed containers as listed above must be cut sufficiently (not just punctured) to ensure they are not capable of holding any gases or liquids.**
- 1.7. Drums, tanks, cans or containers which formerly contained any liquid, gas, or solid substance, unless first crushed and certified in writing by Supplier in advance as triple rinsed and approved by SSAB's Environmental Manager.
- 1.8. Non-conductors of electricity including but not limited to:
  - 1.8.1. Rubber
  - 1.8.2. Rubber tires
  - 1.8.3. Concrete
  - 1.8.4. Glass
  - 1.8.5. Wood
- 1.9. Waste products including but not limited to:
  - 1.9.1. Scarfing
  - 1.9.2. Grindings and sawings
  - 1.9.3. Tire wire (either loose or bailed)
  - 1.9.4. Welding and torch cut fines
  - 1.9.5. Kerf or slag
  - 1.9.6. Mill scale
  - 1.9.7. Baghouse dust
  - 1.9.8. Sludge
  - 1.9.9. Municipal waste or trash, including tin cans.
- 1.10. Non-magnetic materials including but not limited to stainless and high manganese steel.
- 1.11. Cable or wire rope less than ½ inch diameter or greater than 5 feet in length.
- 1.12. Steel scrap which is pit scrap, skulls, spills or run outs, unless approved in writing by SSAB's scrap buyer in advance.
- 1.13. Radioactive materials or radiation sources.
- 1.14. No military or ordinance scrap will be permitted.



2. Shipments must not be top dressed with material that is not representative of the major portion of the material in the shipment and that precludes visual inspection of the shipment.
3. All material is to be suitable and acceptable to SSAB based on its visual inspection or that of its Contractor. Reasons for rejection may include any of the above as determined by SSAB in its sole and absolute discretion. Refer to Section 1, Paragraphs 12 and 13, above for a listing of fees that will be charged for any load that is rejected.

### **SECTION 3**

#### **SCRAP SPECIFICATIONS**

#### **1. Material Name: #1-1/2 Dealer Bundles**

**1.1. Description:** Combination of clean prompt industrial scrap, obsolete scrap and sheet steel hydraulically compressed into a tight bundle. Must not be excessively rusted or corroded, and must be free of non-ferrous material, rebar, tire wire, and wire or slitter exceeding 24" in length. Bundles cannot contain any appliances or White goods.

#### **1.2. Physical requirements:**

Maximum size: 24 inch X 24 inch x 30 inch

Minimum density: 75 lbs. per cubic foot

Maximum piece weight: 1,000 lbs.

#### **1.3. Chemistry Requirements:**

<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
C		Cu	0.50
Mn	1.50	Ni	0.15
Cr	0.20	Mo	0.08
Si	0.60	Sn	0.02
P	0.05	S	0.05

#### **1.4. Restrictions:**

- 1.4.1. Shall be free of non-ferrous metals and non-metallics, excessive dirt, grinding dust, scale, oil, grease, excessive rust, terne plate, tin plate, detinned material, tire wire, Babbitt, resulfurized metal, stainless steel and chrome coatings.
- 1.4.2. White goods and appliances are not permitted.
- 1.4.3. No vitreous enameled material.
- 1.4.4. Whole auto or sheared autos (auto slabs, auto logs) are not permitted
- 1.4.5. Must not contain radioactive material or closed containers.





1.4.6. Bundles must be tightly compressed and must not come apart during handling by a grapple.

## 2. Material Name: Busheling

**2.1. Description:** Prompt industrial carbon steel sheet scrap. No more than 10% of shipment may be galvanized. Silicon steel (greater than 0.50%) is not permitted. Tin coated steel is not permitted.

### 2.2. Physical requirements:

Maximum thickness: 1/4 inch

Minimum density: 50 lbs. per cubic foot

Maximum Area:

Length X Width:

60 inch X 12 inch

48 inch X 18 inch

36 inch X 24 inch

### 2.3. Chemistry Requirements:

<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
C		Cu	0.12
Mn	1.50	Ni	0.10
Cr	0.10	Mo	0.03
Si	0.50	Sn	0.02
P	0.04	S	0.04

## 3. Material Name: Shredded Scrap

**3.1. Description:** Clean, dense magnetically separated shredder processed homogenous carbon steel scrap from fragmentation of automobile, unprepared #1 and #2 heavy melt, and miscellaneous bailing and sheet steel. Not more than 10% "white goods" or appliances, and not more than 10% galvanized material may be mixed with material being shredded.

### 3.2. Physical requirements:

Size: No more than 5% of pieces may be greater than 10 inch in any direction. No piece may be greater than 16 inches in any direction.

Minimum Density: 70 lbs. per cubic foot

### 3.3. Chemistry Requirements:

<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
C		Cu	0.25
Mn	1.50	Ni	0.10
Cr	0.15	Mo	0.05
Si	0.35	Sn	0.02

**3.4. Restrictions:** Must be free of all mercury convenience switches, municipal scrap, and tire wire.

**3.5. NVMSRP Participation:** Supplier must document that it along with its suppliers of shredder feedstock are participants in the National Vehicle Mercury Switch Recovery Program, or other such SSAB approved program, that has a stated goal eliminating the presence of mercury in the shredded scrap supply.

## 4. Material Name: Machine Shop Turnings

**4.1. Description:** Clean, dense, machine shop turnings. Must be free of alloy steel, stainless steel, cast iron borings, powdered metal, resulfurized steel, grindings, grinding dust, steel shot, swarf, torch drippings, tire wire (loose or bailed), mill scale, non-metallic matter, and free of excessive dirt, oil or combustibles. Heavily oxidized, rusted or corroded material is not permitted.

### 4.2. Physical requirements:

Size: Minimum thickness 1/16 inch

Minimum density: 50 lbs. per cubic foot

4.3. Chemistry Requirements:	<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
	C		Cu	0.30
	Mn	1.50	Ni	0.20
	Cr	0.20	Mo	0.15
	Si	0.35	Sn	0.025
	P	0.06	S	0.05

## 5. Material Name: 5 Foot Plate and Structural

**5.1. Description:** Clean, obsolete plate and structural carbon steel from demolition or construction remnants. All new production P&S must be approved by SSAB scrap buyer in writing.

### 5.2. Physical requirements:

Minimum thickness: 1/4 inch

Maximum length and width: Less than 8 inch cross section – 4 feet max. Greater than 8 inch cross section, 60 inch X 12 inch, 48 inch X 18 inch, or 36 inch X 24 inch.

Minimum density: 50 lbs. per cubic foot

Maximum piece weight: 400 lbs. (90% less than 200 lbs.)

5.3. Chemistry Requirements:	<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
	C		Cu	0.35
	Mn	1.50	Ni	0.10

Cr	0.15	Mo	0.03
Si	0.35	Sn	0.02
P	0.04	S	0.04

## 5.4. Restrictions:

5.4.1. Pipe 10 inch in diameter or greater must be cut at least twice longitudinally with the resulting pieces no longer than 36 inches.

## 6. Material Name: 3 Foot Plate and Structural

**6.1. Description:** Clean, obsolete plate and structural carbon steel from demolition or construction remnants. All new production P&S must be approved by SSAB's scrap buyer in writing.

### 6.2. Physical requirements:

Minimum thickness: 1/4 in

Maximum length and width: less than 8 inch cross section – 36 inch X 24 inch MAX.

Minimum density: 50 lbs. per cubic foot

Maximum piece weight: 400 lbs. (90% less than 200 lbs.)

### 6.3. Chemistry Requirements:

<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
C		Cu	0.35
Mn	1.50	Ni	0.10
Cr	0.15	Mo	0.03
Si	0.35	Sn	0.02
P	0.04	S	0.04

## 6.4. Restrictions:

6.4.1. Pipe 10 inch in diameter or greater must be cut at least twice longitudinally with the resulting piece no longer than 36 inches.

## 7. Material Name: # 1 Heavy Melting Steel

**7.1. Description:** New and obsolete carbon steel scrap, alloy free.

### 7.2. Physical requirements:

Minimum thickness: 1/4 inch.

Max. length/width: 60 inch X 12 inch, 48 inch X 18 inch, or 36 inch X 24 inch.

Minimum density: 50 lbs. per cubic foot

Maximum piece weight: 600 lbs. (90% under 200 lbs.)

**7.3. Chemistry Requirements:**

<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
C		Cu	0.30
Mn	1.50	Ni	0.10
Cr	0.15	Mo	0.05
Si	0.50	Sn	0.02
P	0.04	S	0.04

**8. Material Name: # 2 Heavy Melting Steel**

**8.1. Description:** Clean carbon steel scrap, alloy free.

**8.2. Physical requirements:**

Minimum thickness: 1/8 inch

Maximum length and width: 60 inch X 12 inch, 48 inch X 18 inch, or 36 inch X 24 inch.

Minimum density: 40 lbs. per cubic foot

Maximum piece weight: 600 lbs. (90% under 200 lbs.)

**8.3. Chemistry Requirements:**

<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
C		Cu	0.40
Mn	1.50	Ni	0.15
Cr	0.20	Mo	0.05
Si	0.60	Sn	0.02
P	0.04	S	0.05

**8.4. Restrictions:**

8.4.1. Dies, gears, springs, or other alloy materials are not permissible. Wire rope or cable may not exceed 10% of the load and must be ½ inch minimum diameter and 5 feet maximum length. Rebar may not exceed 5% of the load. Tie wire (loose or bailed) is not permitted.

8.4.2. Rear ends, torque converters, and transmissions must be cut and free of all liquid

**9. Material Name: Mixed #1 and #2 Heavy Melting Steel**

**9.1. Description:** Clean carbon steel scrap, alloy free. Load must be 80% #1 Heavy Melt Steel and may not exceed 20% # 2 Heavy Melting Steel

**9.2. Physical requirements:**



Minimum thickness: 1/8 inch. Maximum length and width: 60 inch X 12 inch, 48 inch X 18 inch, or 36 inch X 24 inch.

Minimum density: 45 lbs. per cubic foot

Maximum piece weight: 600 lbs. (90% under 200 lbs.)

<b>9.3. Chemistry Requirements:</b>	<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
	C		Cu	0.35
	Mn	1.50	Ni	0.15
	Cr	0.20	Mo	0.05
	Si	0.60	Sn	0.02
	P	0.04	S	0.05

#### **9.4. Restrictions:**

9.4.1 Dies, gears, springs, or other alloy materials are not permissible. Wire rope or cable may not exceed 10% of the load and must be 1/2 inch minimum diameter and 5 feet maximum length. Rebar may not exceed 5% of the load.

9.4.2 Rear ends, torque converters, and transmissions must be cut and free of liquid.

9.4.3 Tie wire (loose or bailed) is not permitted.

### **10. Material Name: # 1 Railroad Heavy Melting Steel**

**10.1. Description:** Clean carbon steel scrap from demolition or construction remnants, alloy free.

#### **10.2. Physical requirements:**

Minimum thickness: 1/4 inch

Maximum length and width: 60 inch X 24 inch

Minimum density: 50 lbs. per cubic foot

Maximum piece weight: 600 lbs. (90% under 200 lbs.)

<b>10.3. Chemistry Requirements:</b>	<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
	C		Cu	0.20
	Mn	1.50	Ni	0.10
	Cr	0.15	Mo	0.05
	Si	0.35	Sn	0.02
	P	0.04	S	0.04

#### **10.4. Restrictions:**

10.4.1. Rail car brake shoes, bearings or gears are not permitted.

10.4.2. Car sides and tops must not exceed 20% of the load.



10.4.3. Must not contain radioactive material or closed containers.

## 11. Material Name: Beach/Blast Furnace Iron

**11.1. Description:** Clean blast furnace or beach iron, drop-balled and screened to the size range indicated below. Typically generated by a blast furnace operation and coming from a beaching process, runners, or skulls. Material must be de-sulfurized through an SSAB approved de-sulfurizing process.

### 11.2. Physical requirements:

Maximum size: 24 inch X 24 inch X 12 inch. Minimum size: 12 inch X 12" X 12". Load must contain no Fines.

Maximum piece weight: 1,000 lbs. Minimum metallic content: 90%

11.3. Chemistry Requirements:	<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
	C	5.00	Cu	0.05
	Mn	1.00	Ni	0.10
	Cr	0.20	Mo	0.03
	Si	0.60	Sn	0.02
	P	0.05	S	0.05

### 11.4. Restrictions:

11.4.1. May not include other scrap.

11.4.2. Product must be free of slag.

## 12. Material Name: #1 Dealer Bundles

**12.1. Description:** Hydraulically compressed into a bundle at dealer's yard clean, prompt industrial carbon sheet steel scrap.

### 12.2. Physical requirements:

Maximum size: 24 inch X 30 inch X 30 inch

Minimum Density: 70 lbs. per cu.ft.

Maximum piece weight: 1,000 lbs.

12.3. Chemistry Requirements:	<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
	C		Cu	0.12
	Mn	1.50	Ni	0.10
	Cr	0.12	Mo	0.03
	Si	0.30	Sn	0.02
	P	0.04	S	0.040



#### 12.4. Restrictions:

12.4.1 No more than 10% of shipment may be galvanized. Silicon steel (greater than 0.50 % Si) and tin coated materials are not permitted. De-tinned materials are permitted. Tie wire is not permitted in any bundle. Bundles may not be coiled steel or spools of wire.

12.4.2 Bundles must be tightly compressed and must not come apart during handling with a grapple.

#### 13. Material Name: #1 Factory Bundles

**13.1. Description:** Hydraulically compressed into a bundle at industrial manufacturer location. Must be clean, hot or cold rolled new production carbon sheet steel scrap.

#### 13.2. Physical requirements:

Maximum size: 24 inch X 30 inch X 30 inch

Minimum Density: 70 lbs. per cu.ft. Maximum piece weight: 1,000 lbs

#### 13.3. Chemistry Requirements:

<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
C		Cu	0.12
Mn	1.50	Ni	0.10
Cr	0.12	Mo	0.03
Si	0.30	Sn	0.02
P	0.04	S	0.040

#### 13.4. Restrictions:

13.4.1. No more than 10% of shipment may be galvanized. Silicon steel (greater than 0.50 % Si) and tin coated materials are not permitted. De-tinned materials are permitted. Bundles may not be coiled steel or spools of wire.

13.4.2. Bundles must be tightly compressed and must not come apart during handling with a grapple.

#### 14. Material Name: Machine Cast Iron

**14.1. Description:** Broken cast iron machinery and parts.

#### 14.2. Physical requirements:

Minimum thickness: 1/4 inch

Maximum size: 12 inch X 36 inch

Minimum Density: 60 lbs. per cu.ft.

Maximum piece weight: 1,000 lbs.

## 14.3. Chemistry Requirements:

<u>Element</u>	<u>Max. %</u>	<u>Element</u>	<u>Max. %</u>
C	5.00	Cu	0.05
Mn	1.50	Ni	0.10
Cr	0.20	Mo	0.05
Si	0.30	Sn	0.02
P	0.05	S	0.04

## 14.4. Restrictions:

- 14.4.1. Radiation cast, stovepipe, yard cast, burnt iron and brake shoes are not permitted. Soil pipe or cast iron pipe greater than 0.05 % phosphorous is not permitted.