Type of Scrap: #1 Bundles

IRON & STEEL SCRAP SPECIFICATIONS

Specifications

New black steel sheet scrap, clippings or skeleton scrap, compressed to charging box size. May not include old auto body or fender stock. Free of metal coated, vitreous enameled, and electrical sheet containing over 0.5 percent silicon. Material should be alloy free and 1000 series carbon steel. May not include mandrel bundles unless specifically inspected for approval. Minimum density: 75 lbs per cu. ft.

<table>
<thead>
<tr>
<th>Typical Chemistry (%)</th>
<th>Dimension (inches; max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper 0.100</td>
<td>24&quot; x 24&quot; x 36&quot;</td>
</tr>
<tr>
<td>Chrome 0.050</td>
<td></td>
</tr>
<tr>
<td>Nickel 0.050</td>
<td></td>
</tr>
<tr>
<td>Tin 0.005</td>
<td></td>
</tr>
<tr>
<td>Phosphorous 0.010</td>
<td></td>
</tr>
<tr>
<td>Sulphur 0.010</td>
<td></td>
</tr>
<tr>
<td>Silicon 0.150</td>
<td></td>
</tr>
<tr>
<td>Molybdenum 0.015</td>
<td></td>
</tr>
</tbody>
</table>

Pictures

![Image 1](image1.png)
![Image 2](image2.png)
Type of Scrap: **Busheling**

**IRON & STEEL SCRAP SPECIFICATIONS**

**Specifications**

Clean steel scrap including new factory busheling (for example, sheet clippings, stampings, etc.). May not include old auto body and fender stock. Free of metal coated, vitreous enameled and electrical sheet containing over 0.5 percent silicon. Material should be alloy free and 1000 series carbon steel. May not include mandrel bundles unless specifically inspected for approval. Minimum density: 50 lbs per cu.ft.

**Typical Chemistry (%) max**

- Copper 0.100
- Chrome 0.050
- Nickel 0.050
- Tin 0.005
- Phosphorous 0.010
- Sulphur 0.010
- Molybdenum 0.020

**Dimension (inches; max)**

- 60" x 24"

**Pictures**

![Picture 1](image1.png)

![Picture 2](image2.png)
Type of Scrap: P&S / Plate

IRON & STEEL SCRAP SPECIFICATIONS

Specifications

Description:
Cut plate and structural new production scrap, low residual chemistry. May include steel plates, structural beams, heavy gauge tubing and pipe. Pipe over 6” in diameter must be split in two. Not Allowed: Non-metallic, non-ferrous metals, excessive dirt, grease, oil, lead joints, tinplate, radioactive material, uncut tanks, cylinders, sealed units, electric motors, or high alloy steel.

Typical Chemistry (%; max)

<table>
<thead>
<tr>
<th>Element</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>0.140</td>
</tr>
<tr>
<td>Chrome</td>
<td>0.200</td>
</tr>
<tr>
<td>Nickel</td>
<td>0.300</td>
</tr>
<tr>
<td>Tin</td>
<td>0.010</td>
</tr>
<tr>
<td>Phosphorous</td>
<td>0.050</td>
</tr>
<tr>
<td>Sulphur</td>
<td>0.100</td>
</tr>
<tr>
<td>Silicon</td>
<td>0.060</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>0.030</td>
</tr>
</tbody>
</table>

Dimension (inches; max)

- 48” X 24” X 12”

Density: 65 lbs/cf typical
Weight: 500 lbs maximum
Thickness: 3/16” minimum
Type of Scrap: Rail Crops

IRON & STEEL SCRAP SPECIFICATIONS

Specifications

Description:
This commodity is for railroad rail. Must be 3 feet long or smaller. No plates, spikes, wheels, cast iron, nails, knuckles, manganese material.

Typical Chemistry (%; max)

<table>
<thead>
<tr>
<th>Element</th>
<th>Max Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>0.86</td>
</tr>
<tr>
<td>Manganese</td>
<td>1.25</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>0.020</td>
</tr>
<tr>
<td>Sulfur</td>
<td>0.020</td>
</tr>
<tr>
<td>Silicon</td>
<td>0.600</td>
</tr>
<tr>
<td>Nickel</td>
<td>0.25</td>
</tr>
<tr>
<td>Chromium</td>
<td>0.300</td>
</tr>
<tr>
<td>Molybdenum</td>
<td>0.060</td>
</tr>
</tbody>
</table>

Dimension (inches; max)

36" X 6" X 6"
Type of Scrap: Railroad Wheels

IRON & STEEL SCRAP SPECIFICATIONS

Specifications

Description:
This commodity is for steel railcar wheels. The axles must be cut off flush with the wheel on both sides or the axle must be pressed out of the wheel. No side frames, bolsters, railroad rail, cast iron, or manganese material.

Typical Chemistry (%; max)                                           Dimension (inches; max)
Carbon 0.590                                                        48” X 6”
Manganese 1.00
Phosphorous 0.045
Sulphur 0.050
Vanadium 0.080
Type of Scrap: Shredded

IRON & STEEL SCRAP SPECIFICATIONS

Specifications

Homogeneous iron and steel scrap, magnetically separated, originating from automobiles, unprepared No. 1 and No. 2 steel, miscellaneous baling and sheet scrap. Minimum density: 70 lbs per cu. ft.

Typical Chemistry (%; max)       Dimension (inches; max)

Copper 0.28                  
Chrome 0.100                 
Nickel 0.110                 
Tin 0.010                    
Phosphorous 0.020            
Sulphur 0.040                
Silicon 0.200                
Molybdenum 0.040             

Pictures
This section illustrates the materials that Big River Steel will not accept from any of its suppliers. Please find below some examples and photos of materials that are not accepted.

**Materials Not Accepted**

All grades of scrap must be free of hazardous material. The presence of this material is an ABSOLUTE REJECTION and the shipper/facility from where the contaminated scrap originated will be held liable for any and all costs, fines, or damages associated with the incidence. Further, this will warrant review of the shippers/facilities operation and a decision will be rendered whether to remove the company as a scrap supplier.

**Sealed & Flammable Containers**

Propane Tanks  Gas Tanks  Aerosol Containers
Materials Not Accepted

**PCB Containing Devices** (capacitors, ballasts, microwave ovens etc)

Ballasts

Capacitors

Batteries

**Hydraulic Cylinders**

such as shock absorbers are not acceptable in loads of scrap.
Materials Not Accepted

Scrap Bearing Lead

Pipes with lead  Chemical tanks with lead lining

Contaminants (dirt, wood, plastic, water, cement, tires, etc)

Wood  Tires  Cement
Materials Not Accepted

Miscellaneous items (material containing Freon, transformers, liquids or sludge lead battery cable ends, heavy steel, mercury-containing devices, computers, electronics, etc.)

Air bag canisters

Mercury Switches

Electronics

Computers
Materials Not Accepted

**Radioactive material** (military equipment, fertilizer related equipment, etc)

All grades of scrap must be free of radioactive contaminated material and/or radiation sources. The presence of this material is an **ABSOLUTE REJECTION** and the shipper/facility from where the contaminated scrap originated will be held liable for any and all costs, fines, or damages associated with the incidence. Further, this will warrant review of the shippers/facilities operation and a decision will be rendered whether to remove the company as a scrap supplier.

Radium dial  
Smoke detectors