

Material :	Steel Scrap		Grade :	All	SDI Part #	N/A						
Industry Id :	ISRI #'s: N/A		A.K.A. :	N/A								
Scope :	The following general qualit purposes of melting at the F	ty specificatic Pittsboro, Ind	ons apply to all s liana mill.	crap grades pi	urchased by Ste	eel Dynamics, In	ic. for the					
Special Defin	litions :											
Special Denn	<u>"Downgrade"</u>	When a p may, by a inferior g	particular grade agreement by Sl rade of scrap. R	of scrap is fou DI-PIT and sup efer to SOP TI	nd to not confor oplier, be downg R-SOP-809 for	m to its represe graded and acce downgrading pro	nted grade, it epted as an ocedures.					
	" <u>Free of</u> "	When sp material i preparati	pecified to be "fre in any amount g ion and handling	e of", the grad reater than tha of that particu	e shall not cont It which is unav Ilar grade.	ain any amount of prohibited oidable in the customary						
	" <u>Free of alloys</u> "	 Scrap is "free of alloys" if the residual content of the elements listed below, contained within the steel, do not occur at levels consistent with the purposeful creation of an Alloy Steel. Residual level of elements contained within the Scrap shall not exceed: Chromium (Cr) 0.20% Nickel (Ni) 0.30% Manganese (Mn) 1.5% Molybdenum (Mo) 0.10% The combined residual level, exclusive of manganese, shall not exceed 0.60%. 										
	" <u>Grade"</u>	A classifi ferrous s	ication of scrap t crap classification	ype based upo on or SDI-PIT /	on Institute of So vendor descrip	crap Recycling I tion.	ndustries (ISRI)					
	" <u>Off-Grade</u> "	A load of as specif	 A load of scrap shall be considered off grade if it fails to meet: Applicable size limitations Applicable requirements of material "kind" Applicable requirements of material quality as specified in the material's (grade's) Raw Material Specification (RMS). 									
General Spec	cifications : Cast Iron	Unless s contain le includes, and casti	pecifically purch ess that 1% (by , but is not limite ings.	ased as a Cas weight) of cast d to, Cast Iron	t Iron or Pig Iro irons unless ot , Pig Iron, comp	n grade, all scra herwise noted ir osite brake sho	p grades shall n the spec. This es, engine blocks					
	Cleanliness	All grade	es shall be free o	f excessive rus	st, corrosion, di	t, oil, or grease.						
	Fracking Scrap	All grade hazardou	es are to be free us materials (e.g	of gas and oil . explosives) a	well perforation issociated with t	tools/piping and fracking.	l all other					
	Hazardous Materials	All grade electronio waste, m transform containin	es shall be free o c waste (to the e nilitary-scrap (inc ners or capaciton ng materials (e.g	f hazardous m xtent practical luding ammun s), radioactive , air condition	aterials, includi ble), explosives ition casings), c materials, or re ers or condense	ng, but not limite , flammable mat il-filled devices efrigerants or ref ers),-	ed to, asbestos, erials, hazardous (e.g. rigerant-					
		All grade that may (e.g., car food pack casings,	es must be deple contain chlorina rpeting, clothing, kaging, packagin bumpers, plastic	ted to the exte ted plastics in foam, furniture ng materials), o parts).	nt practicable o clude, but are n e, Styrofoam), c or plastic motor	f chlorinated pla ot limited to, cor ontainers (e.g. l vehicle compor	astics. Materials nsumer products bags, bottles, nents (e.g. battery					
		All grade materials based pa pipes, wh	es must be deple s. Materials that aints, gasoline ta heel balancing w	ted to the exte may contain le nks, metal gut eights, babbit,	nt practicable o ad include, but tering and othe solder, radiato	f lead and lead- are not limited t r terne material, rs, and leaded jo	containing o batteries, lead- mufflers and tail pints in soil pipe.					

Hazardous Materials - Continued	All grades must be depleted to the extent practicable of mercury and mercury- containing materials. Materials that may contain mercury include, but are not limited to: mercury-wetted or -containing relays, switch gear, rectifiers, gauges, manometer, barometers, thermometers, and fluorescent lighting fixtures.
	may contain free organic liquids include, but are not limited to, oil filters engine blocks, oily turnings, oily machine shop borings, or storage drums or totes.
Inspection	All material is to be suitable and acceptable to Steel Dynamics, Inc. based upon inspection as per TR-SOP-809.
Loading/Unloading	All grades must be capable of being loaded and unloaded by electromagnet. Seller's indemnification includes indemnification for delivery under this Purchase Order by means of any frameless trailer. Seller agrees that it shall be solely liable for any and all damages, including any clean up and/or SDI down time resulting from Seller's utilization of any frameless trailers for delivery of the product covered by this Purchase Order. Seller shall be responsible for any costs, attorney fees or any consequential damages incurred by SDI for recovery of the Items due or owed by Seller under this paragraph.
Motor Vehicle Shred	Motor vehicle shred providers must participate in the National Motor Vehicle Switch Removal Program (NMVSRP) or another U.S. EPA-approved mercury switch removal program.
Non-Ferrous	Non-Ferrous : All grades are to be free of Non-Ferrous materials. Non-Ferrous materials include, but are not limited to, copper (electric motors, piping, compressors, wires, brass/bronze castings), aluminum, chromium (plated articles) or lead.
Non-Metallics	All grades are to be free of Non-Metallic Materials. Non-Metallic Materials include, but are not limited to, wood, paper, fiber, plastics, rubbers, foam, fluff, slag, concrete, dirt, or grease and oils.
Off-Grade	The grade shall be free of Off-Grade materials except where the vendor can demonstrate that inclusion of negligible amounts of Off-Grade materials are unavoidable in the customary preparation and handling of the grade involved.
Radioactivity	All grades shall <u>not</u> contain radioactive materials. Scrap loads found containing radioactive sources are to be immediately rejected and managed in accordance with TR-SOP-809. Under no circumstances shall any radioactive scrap be subject to acceptance through downgrade.
	Potential radioactive items that might be found in the scrap supply include, but are not limited to, industrial gauges, industrial radiography devices, medical therapy devices, beta- or gamma- particle emitting devices, static eliminators, pipe or casing scale, contaminated metal, or welded pieces.
Sealed Containers	All grades shall <u>not</u> contain Closed, Enclosed or Sealed Containers. Such containers may be accepted providing they have been processed such that; one end has been removed, a minimum of two large holes broach the "sealed" portion of the container, or the container has been cut in half. Closed, Enclosed, or Sealed Containers include, but are not limited to: • Hydraulic or gas cylinders • Air Freon Acetylene • Sealed units (a grafrigeration
	 Oxygen, Propane tanks Automotive rear ends Gear cases Compressors) Any vessel which contains and retains gases, oils, or fluids
Stainless Steel	All grades shall be free of stainless steel.
Tin Plate	All grades shall be free of tin-plated materials.



Material	St	eel S	crap Su	bstitute		Grade :	Pig	Iron			SDI Part	:# 1	P0100820
Industry Id :						A.K.A. :		Basic Pig I	ron				
Description :	•	Cas piec Pig	st Iron or ces), or p s' weighi	Blast Fur yramids. ing-30 – 1	mace Iron	n, cast into ds each.	ndivid	ual "Pigs",	grouped	d "pigs" (broken ii	nto sm	aller
Typical Appe	idual	Pic	js			Brol	cen I	igs			Pu	rami	se s
Sizing	Tł	nickne: Ma	ss (minimu aximum	ım)	≤ 28″∶	8 " x 12″		Typical D	ensity			180 - 2 (lbs / f	200 t ³)
Chemistry		С	Mn	Р	S	Si	Cu	Ni	Cr	Мо	Sn		
Minimum (wt	%) 3	.00											
Maximum (wt	%) 5	.00	1.20	.15	.05	1.20							1
Prohibitions	In	additic	on to comm Bea Kisł Hor Bro Cas	nonly prohi ach Iron n ne Scrap ken Castin st Iron Cas	bited mate ligs (other t tings	erials (PUR-S	S-001), Pigs)	may not con	tain the f	ollowing:			
Allowances Additional N	otes												



Material :	Steel S	Scrap			Grade :	#1I	Bundles	;		SDI Part	:#	P0060110
Industry Id :	ISIS #'s:	208			A.K.A. :		Dealer B	undles				
Description :	Cle	an Steel so	rap, bush	elling, clipp	oings, sheet,	or skelet	ton scrap of	compressed	d into a bu	ndle		
Typical Appeara	nce						Typical	Constituer	nts			
	Thistee						Hydraulio • •	cally compr Bushellir Clipping: Punching Sheet steel	essed bur ^{1g} ^g ^g ^s ^s ^s ^s ^s ^s ^s ^s	ndles cons	isting of	of:
Sizing	M	aximum		48″ x 3	6″ x 36″		Typical	Density			(lbs/	ft ³)
Chemistry	С	Mn	Р	S	Si	Cu	Ni	Cr	Мо	Sn		
Maximum (wt%)		1.50	.05	.05	.50	.10	.10	.10	.03	.01		
Prohibitions	rohibitions In addition to commonly prohibited materials (PUR-SS-001), may not contain the following: • Auto body stock • Metal coated, limed, or vitreous enameled steels • Auto fender stock • De-tinned materials											
Allowances		Zince	c or galvan	ized coate	d materials							
Additional Note	S											



Industry Id : ISRI #'s: 200, 201, 202 A.K.A. : #1, #1 Steel, Heavy Melt, HMS, HMS #1 Description : Clean steel scrap '4'' thickness and over. Typical Constituents Typical Appearance Structural Items Plates * Truck Parts Large Machinery parts * Automotive Parts excluding: • * Gears • * Transmission Parts • * Torque Converters • Sizing Thickness (minimum) ≥ 1/4* Maximum 60" x 24" Typical Density 45 - 4 (lbs //										
Description : Clean steel scrap ¼" thickness and over. Typical Constituents • Structural Items • Structural Items • Plates • Truck Parts • Large Machinery parts • Large Machinery parts • Clean steel scrap //" thickness and over. • Clean steel scrap //" • Structural Items • Structural Items • Plates • Truck Parts • Large Machinery parts • Automotive Parts excluding: • Gears • Transmission Parts • Torque Converters • Torque Converters Sizing Thickness (minimum) • Sizing • Ni • C • Mn • S • Cu • Ni • Mo										
Typical Appearance Typical Constituents • Structural Items • Plates • Truck Parts • Large Machinery parts • Large Machinery parts • Automotive Parts excluding: • Gears • Transmission Parts • Torque Converters • Torque Converters Sizing Thickness (minimum) ≥ 1/4 ° Typical Density 45 - 0 • Chemistry C Mn P S Si Cu Ni Cr Mo Sn										
Thickness (minimum) $\geq 1/4$ "Typical Density45 - 6SizingMaximum60" x 24"Typical Density(lbs / 1000)ChemistryCMnPSSiCuNiCrMoSn										
Chemistry C Mn P S Si Cu Ni Cr Mo Sn	3)									
Maximum (wt%) .05 .05 .35 .25 .26 .06 .025										
Prohibitions In addition to commonly prohibited materials (PUR-SS-001), may not contain the following: • Transmission parts • Springs • Torque converters • Stainless Steel • Gears • Galvanized scrap • Chains • Reinforcing bar	I), may not contain the following: • Springs • Stainless Steel • Galvanized scrap • Reinforcing bar									
Alloy steel content must not exceed 15% by weight Dies by SDI pre-approval Cast Iron allowed to 10% A few wheel rims Gas cylinders sheared into two or more pieces allowed to 10% A few springs Onal Notes Pipe over 8" diameter must be split										



Material :	Steel Scrap	Grade	# 2 Bundles	SDI Part # P0070120							
Industry Id :	ISRI #'s: 209, 218	A.K.A. :	Bales, Bundles								
Description :	 Old Black and galvanize Unprepared #2 Heavy M density 	d sheet steel hydrauli elting Scrap hydraulio	cally compressed into rectangular cubes ally compressed into rectangular cubes	for the purposes of increasing							
Typical Appearance Typical Appearance Typical Constituents • "Post Consumer" goods • "White Goods" (appliance shells) • Used sheet goods (siding, canning stock, etc.) • Low density # 2 Heavy Melting Steel (compressed to increase density) • Thickness (minimum) N/a											
Sizing	Thickness (minimum) Maximum	N/a 24″ x 36″ x 48″	Typical Density	60 - 70 (lbs / ft ³)							
Chemistry	C Mn P	S Si	Cu Ni Cr Mo	Sn							
Maximum (wt%	6) Maximum Chen	nistries are difficult to	determine as content varies widely from	bundle to bundle							
Prohibitions	In addition to commonly prohi	bited materials (PUR-	SS-001), may not contain the following:								
	 Municipal Scra Incinerator Sc Lead Coated S Excessive fluf 	ap rap Steel									
Allowances	Vitreous enam	eled materials up to	15% by weight, provided the "white good	s" do not contain wiring							
	harnesses, mo Any individual	otors, compressors, o bundle may contain u	r capacitors. ip to 15% reinforcing bar.								
Additional No	tes										



Material :	Steel Scrap	Grade :	Grade : # 2 Heavy Melting Scrap SDI Part # P002052									
Industry Id :	ISRI #'s: 203, 204, 205, 206	A.K.A. :	#2, HMS #2, #2 Steel	•								
Description :	 Steel Scrap, black or galve May include automotive must be cut and drained) Free of sheet iron and this 	vanized 1/8" thick scrap if properly n gage material	tness and over. prepared (rear ends, torque con	werters, and transmissions								
Typical Appearan			Typical Constituents Small Diameter Pipe Automotive Wheel rii Reinforcing bar Prepared automotive Post-consumer steel Light-weight structura Small machinery par	ms e parts goods al items ts								
Sizing	Thickness (minimum) Maximum	≥ 1/8 " 36″ x 24″	Typical Density	40 - 55 (lbs / ft ³)								
Chemistry	C Mn P	S Si	Cu Ni Cr Mo	Sn Sn								
Maximum (wt%)	.03 .	070	.55 .20 .20 .04	.04								
Prohibitions	.03 .070 .55 .20 .04 .04 In addition to commonly prohibited materials (PUR-SS-001), may not contain the following: .04 .04 • Municipal scrap .070 .55 .20 .04 • Municipal scrap .070 .070 .070 • Turnings .070 .070 .070 • Stainless steels .04 .04 • Tin Coated steel .04 .04 • Lead Coated Steel .070 .070 • White Goods .070 .070 .070											
Allowances	Alloy steel conten Cast Iron content May contain unde Gas cylinders she Reinforcing bar m	t must not exceed 2 allowed to 25% by v rsized <u>#1 Heavy Me</u> ared into two or moi ust not exceed 25% efter must be split	5% by weight veight <u>el<i>ting Steel</i></u> if prepared for compact of re pieces allowed to 10% by weight	charging								
		eter must be split.										



Material	Steel S	Scrap			Grade	: Plat	e and St	ructura	l Steel	SDI Part	# P	0110410	
Industry Id :	ISRI #'s:	231, 232			A.K.A. :		P&S						
Description :	• Cle	ean cut str	uctural a	nd plate s	scrap.								
	• Cle	ean cut str	uctural sl	ape crop	ends, she	earings, o	or broken	steel whe	eels				
Typical Appearance Typical Appearance Typical Appearance Structural Items Structural Items Plates Large diameter pipe Heavy walled pipe Sizing Thickness (minimum) ≥ 1/4 " Maximum 60" x 24" Typical Density 60 - 70 (lbs / ft ³) Chemistry C Mn P S Si Cu Ni Cr Mo Sn													
Sizing	М	aximum	,	60" >	x 24″		Typical	Density			(lbs / ft ³	³)	
Chemistry	С	Mn	Р	S	Si	Cu	Ni	Cr	Мо	Sn		<u> </u>	
Maximum (wt	%)		.04	.04		.30	.15	.15	.03	.015			
Prohibitions	In addition	on to comm	only prohi	bited mate	rials (PUR	·SS-001),	may not co	ontain the f	ollowing:				
		Rei	nforcing ba	ir must not	t be presen	t							
Allowances		• Hea	vy Walled	Pipe must	not excee	d 20% by	weight						
		This	s grade ma	y be mixe	d with #1 R	ailway Sc	rap, provid	ed that car	sides do I	not exceed	l 20% by	weight	
Additional N	otes	 Pipe 	e over 8" d	iameter m	ust be split								



Material :	Steel S	crap			Grade	Grade : # 2 Shredded Steel				SDI Part	# P004	40320
Industry Id :	ISRI #'s:	210, 211			A.K.A. :		Auto Shr	edded, Fra	agmentized	d Scrap, Sl	nredded	
Description :	• Hon Mel	nogeneous ting Steel :	s shreddeo and # 2 He	d steel scra eavy Meltir	ap magneti Ig Steel, ar	cally separ nd miscella	ated, origii neous she	nating fron et steel.	n automob	iles, unpre	pared # 1 ⊦	leavy
Typical Appea	rance			la		語をした。			の一方	5-70		
Sizing	Ma	aximum)	10″ x 10	0″ x 10 "		Typical	Typical Density		(lbs / ft^3)		
Chemistry	С	Mn	Р	S	Si	Cu	Ni	Cr	Мо	Sn		
Maximum (wt	6)		.04	.015		.32	.15	.15	.03	.015		
Prohibitions	In additic	on to comn • Mui • Inci • Lea • Vitr • Tin • Exc • Cop	nonly proh nicipal Scr nerator Sc d Coated eous enan cans essive flut oper clad c	ibited mate ap srap Steel neled mate f or plated st	erials (PŪR erials eel	-SS-001),	may not co	ontain the f	ollowing:			
Allowances		Cas	st iron con	ent not to	exceed 5%	by weight	. Cast iror	n pieces m	ay exceed	10", but m	ust not exc	;eed 16"
Additional No	tes	• Due mot	e to the na	ture of pro	cessing, th	is grade of ent must n	scrap stee ot exceed	el will conta 0.32%	ain small q	uantities o	f copper wi	ring and



Material	:	Steel S	Scrap			Grade :	Bush	neling			SDI Part	# P	0050210
Industry Id :						A.K.A.: #1	Bushe	ling					
Description :	1	• Cle etc	ean steel s .).	scrap, inc	luding ne	w factory b	ushelin	g (for exa	mple, she	eet clippii	ngs, stamj	pings, f	flashings,
Typical Appe	arance)											
	「「大山」												
		Thickne	ss (minimu	ım)	≤ 1	/4"						60 - 7	5
Sizing		M	aximum		36" >	< 60″		Typical I	Density			(lbs / ft	³)
Chemistry		С	Mn	Р	S	Si	Cu	Ni	Cr	Мо	Sn		
Minimum (wt	%)												
Maximum (wt	t%)		0.60	0.02	0.02	0.30	0.10	0.08	0.08	0.02	0.02		
Prohibitions		in additio	on to comn Old Tin Lime	nonly proh auto body or lead-co ed, vitreou	ibited mate or fender ated mater is enamele	erials (PUR-S stock ials d materials	S-001), r	may not co	ntain the fo	bilowing:			
Allowances			• Che	mically de	tinned ma	terials							
Additional N	otes												



Material :	Steel S	crap			Grade : Cast Iron Borings					SDI Par	t# PC	0160620
Industry Id :	ISRI #'s:	220, 222,	223		A.K.A. :		Machine	shop turni	ngs, shove	eling turnir	ngs	
Description :	• Cle scal	an steel ti le.	urnings, v	wrought i	ron or cas	t iron bo	rings, fre	e of nonfe	errous me	tals, exce	essive oil,	and
Typical Appearan	ce							Typical C • Mac • Cas • Mall	Constituer hine shop t iron borir eable iron	nts turnings ngs borings		
Sizing	Thickne Diamet	ss (averag er (averag	le) e)	< '	1/8"		Typical	Density			35 - 50 (lbs / ft ³)	
Chemistry	С	Mn	<u>́</u> Р	S	Si	Сц	Ni	Cr	Мо	Sn	(100 / 10)	
Maximum (wt%)			.03	.070		0.25	0.15	.20	.04	0.03		
Prohibitions	In additio	n to comm Exc Exc Dirt Non	nonly prohi essive oil essive rus or scale ferrous mo	ibited mate t etals	erials (PUR	-SS-001),	may not o	contain the	following:			
Allowances												
Additional Notes												



Material :	Ste	el Scrap			Grade	Briq	uettes			SDI Part	#	P0150910
Industry Id :	ISRI	#'s: 226, 227			A.K.A. :		Briquette	d Iron Bor	ings, Briqu	letted Stee	l Turnings	
Description :	•	Clean steel t	urnings, v	wrought i	ron boring	s, or cas	t iron bor	ings, free	of exces	sive oil, r	onferrou	S
		metals, and	scale. Co	mpressed	l into a hig	gh-densit	y briquet	e shape.		,		
Typical Appea	rance			<u> </u>	、		Тур	ical Cons	tituents			
NUMBER OF STREET						-	•	Steel turr	nings			
a de		will all				A at a	•	Cast iron	borings			
		A		-	B. CHER	A La	TR					
					a la state	all as	C.					
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	A	A Start	RA	3.44	-			1				
	1.1.1	Par age	a max in	10 M	2.4 3	Sand and						
the short the		4 500	Rey	Bankan	1481 13	1	and the second se					1000
States - AP			12000	A ALL STRATE	Se of the	STR. Str.		4	AR			San Martina S
	Thi	ckness (averad	ae)	3 -	4"						40 - 55	
Sizing	Dia	ameter (averag	e)	6 -	- 7"		Typical	Density			(lbs / ft ³)	
Chemistry	С	Mn	Р	S	Si	Cu	Ni	Cr	Мо	Sn		
Maximum (wt	%)		0.03	0.08		0.25	0.15	0.20	0.04	0.03		
Prohibitions	In ad	Idition to com	nonly proh	ibited mate	erials (PUR	-SS-001),	may not c	ontain the	following:			
		• EXC		+								
		 Dirt 	or scale	i i								
		2	er eeure									
Allowances												
Additional No	otes											



Material :	Steel Scrap			Grade :	Inte	rnal Re-	melt Sc	rap	SDI Part	t #	N/A
Industry Id :				A.K.A. :		Home S	crap, Tund	lish Skulls	Bar Crops	s, Pit Scrap)
Description :	Description : • Bars or blooms of local origin cut into size appropriate for remelting. Tundish skulls and pit scrap broken down to usable dimensions. Material is color-coded to identify chemistry.										
Typical Appearan	rce			Typic • (• H • (• S • H • H	al Const Caster he Furnace Caster tu Scrapped Bar crop Etch lab	ituents ead crops and ladle indish sku l blooms s and Met	and tail o slag ills or bars lab sampl	crops			
	Thickness (average	Pit Scra	ap me ap							Tundis Skull	sh
Sizing	Length (maximum) 5'				1	Typical De	ensity			(lbs / ft ³)	
Maximum (wt%)	C IVIN		3	<u> </u>	Ju	INI	Ur	IVIO	0.04		
Prohibitions Allowances	In addition to comm	nonly prohil	bited mate	erials (PUR-	SS-001),	may not c	ontain the	following:	0.07	1	. <u></u>
Additional Notes Color Code System: Green: Plain Carbon Steel Yellow: Resulfurized/Rephosphorized Steel/Rebar/Angle/High Copper Red: Chrome-Moly Alloy Steel Silver: High Chrome-Moly Alloy Steel											
	Blue: Nickel-C	hrome-Mo	ly Alloy S	iteel							



Material :	: Ste	Steel Scrap				Grade : Gamma Shred				SDI Part # P0030310				
Industry Id :	ISR	ISRI #'s: 210, 211, 212				A.K.A.: Auto Shredded, Fragmentize					d Scrap, Shredded			
Description :	•	 Homogeneous shredded steel scrap magnetically separated then subsequently analyzed by gamma excitation analysis and certified below 0.20 Cu, originating from automobiles, unprepared # 1 Heavy Melting Steel and # 2 Heavy Melting Steel, and miscellaneous sheet steel. 												
Typical Appea	<image/>													
Sizing	Thi	ckness (minim Maximum	um)	N 10″ x 1	/A 0" x 10"	- Typical Density				55 - 70 (lbs / ft ³)				
Chemistry	C	; Mn	Р	S	Si	Cu	Ni	Cr	Мо	Sn				
Maximum (wt%	6)		.04	.015		.20	.15	.15	.03	.015				
Prohibitions In addition to commonly prohibited materials (PUR-SS-001), may not contain the following: • Municipal Scrap • Incinerator Scrap • Lead Coated Steel • Vitreous enameled materials • Tin cans • Excessive fluff • Copper clad or plated steel • Cast iron content not to exceed 5% by weight. Cast iron pieces may exceed 10", but must not exceed 16"														
Additional No	otes	• Due mo	e to the na tor winding	ture of proo s. Total c	cessing, th opper cont	is grade of ent must n	scrap stee ot exceed	el will conta 0.20%	ain small c	juantities c	of coppe	er wiring and		

Steel Dynamics, Inc. Engineered Bar Products Division

Material	Steel Sc	rap Substi	tute		Grade : B-Scrap					SDI Part	t #	P0190510	
Industry Id :	N/A				A.K.A. :		Ladle B-Scrap						
Description :	The stee crushed	The steel/slag mixture leftover after a ladle (EAF or LMF) tear out. Commonly found on the rim of a ladle. Material is crushed before being received.											
Typical Appe	arance	Typical Constituents											
							EAF or LMF ladle scrap						
a part	Thickne	ss (minim	um)							1			
Sizing						Typical Density				200-300 lbs/ft3			
	M	aximum		0.5"	x 24"								
Chemistry	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	<u> </u>		
Maximum (wt	:%)	1.0	0.05	0.08		0.30		0.20			<u> </u>		
Prohibitions In addition to commonly prohibited materials (PUR-SS-001), may not contain the following: • Dirt • Fines • Slag • Debris • Other material not identified as B Scrap													
Allowances Ladle skulls and/or lips not to exceed 20% by weight.													
Additional N	otes												