

Nomenclature		Post-consumer scrap (Old scrap)		
Description		Steel scrap in large pieces	Steel scrap in small pieces	
(Sheet)-Thickness	[mm]	≥ 6	< 6	
Exaple of materials				
Preliminary processing		-	Milling	
Main processing step		Cutting	Cutting / Baling	
Exemplary machines for the central processing step				
Machine for the central processing step		Scrap shear	Scrap shear / Baling press	
Subsequent treatment process		Grading / Sorting	-	
Representation of the (intermediate) product				
Intermediate product		Loose scrap	Loose scrap / package	
Number of scrap category (EU steel scrap specification)		E3	E1	
Number of scrap category (ISRI scrap specification)		200-206; 231-232; 236-243	-	
Description / Requirement		Steel scrap in large pieces is preprocessed for direct charging. Steel scrap including tubes and section steel, excluding auto body and car wheels. To reach the target analysis the scrap has to be free of reinforcing steel, rod steel (low diameter) and visible pieces of metallic copper, tin, lead (and alloys), mechanical parts and debris.	Steel scrap in small pieces is preprocessed for direct charging. If a higher apparent weight is desired, it is recommended not to exceed a maximum size of 1 m. Steel scrap possibly includes car wheels, but only in the absence of scrap of car body and domestic appliance. To reach the target analysis the scrap has to be free of reinforcing steel, rod steel (low diameter) and visible pieces of metallic copper, tin, lead (and alloys), mechanical parts and debris.	
Thickness	[mm]	≥ 6	< 6	
Dimensions	[m]	≤ 1,5 x 0,5 x 0,5	≤ 1,5 x 0,5 x 0,5	
Apparent weight	[t/m ³]	≥ 0,6	≥ 0,5	
Share of chips	[%]	≤ 1	< 1,5	
Targeted analysis	Cu	[%]	≤ 0,250	≤ 0,400
	Sn	[%]	≤ 0,010	≤ 0,020
	Cr, Ni, Mo	[%]	≤ 0,250	≤ 0,300
	S	[%]	-	-
	P	[%]	-	-

Nomenclature		Pre-consumer scrap (New scrap)		
Description		Steel scrap in large pieces	Steel scrap in small pieces	Steel scrap in small pieces
(Sheet)-Thickness	[mm]	≥ 3	< 3	< 3
Exaple of materials				
Preliminary processing		-	Milling	Milling
Main processing step		Cutting	Cutting / Baling	Baling
Exemplary machines for the central processing step				
Machine for the central processing step		Scrap shear	Scrap shear / Baling press	Baling press
Subsequent treatment process		-	-	-
Representation of the (intermediate) product				
Intermediate product		Loose scrap	Loose scrap / package	Package
Number of scrap category (EU steel scrap specification)		E2	E8	E6
Number of scrap category (ISRI scrap specification)		200-206	207; 234; 239; 240; 243A	
Description / Requirement		Steel scrap in large pieces (> 3 mm) preprocessed for direct charging. To reach the target analysis the scrap has to be uncoated (unless otherwise agreed) and free of reinforcing steel, rod steel (low diameter), and visible pieces of metallic copper, tin, lead (and alloys), mechanical parts and debris.	Steel scrap in small pieces preprocessed for direct charging. The steel scrap must be uncoated (unless otherwise agreed) and free of loose ribbons to avoid problems at charging. To reach the target analysis the scrap has to be free of visible pieces of metallic copper, tin, lead (and alloys), mechanical parts and debris.	Steel scrap in small pieces (< 3 mm) compacted or in the form of packages, preprocessed for direct charging. The steel scrap has to be uncoated (unless otherwise agreed). To reach the target analysis the scrap has to be free of visible pieces of metallic copper, tin, lead (and alloys), mechanical parts and debris.
Thickness	[mm]	≥ 3	< 3	< 3
Dimensions	[m]	≤ 1,5 x 0,5 x 0,5	≤ 1,5 x 0,5 x 0,5	-
Apparent weight	[t/m ³]	≥ 0,6	≥ 0,4	≥ 1
Share of chips	[%]	< 0,3	< 0,3	< 0,3
Targeted analysis	Cu	[%]	Σ ≤ 0,300	Σ ≤ 0,300
	Sn	[%]		
	Cr, Ni, Mo	[%]		
	S	[%]	-	-
	P	[%]	-	-

Nomenclature		Shredded scrap	Steel chips	
Description		Shredded steel scrap	Steel chips from the machining	
(Sheet)-Thickness	[mm]	-	-	-
Exaple of materials				
Preliminary processing		Milling	Milling, grading, sorting	Milling, grading, sorting
Main processing step		Baling (Option)	Briquetting (Option)	Briquetting (Option)
Exemplary machines for the central processing step				
Machine for the central processing step		Baling press	Briquetting press	Briquetting press
Subsequent treatment process		-	-	-
Representation of the (intermediate) product				
Intermediate product		Package	Briquette	Briquette
Number of scrap category (EU steel scrap specification)		E40	E5H	E5M
Number of scrap category (ISRI scrap specification)		210-212; 243B	219-222; 245-247; 251	
Description / Requirement		Shredded steel scrap (PCS) existing of pieces smaller than 200 mm (representing 95 % of the charge) and accordingly smaller than 1000 mm (representing 5 % of the charge) preprocessed for direct charging. To reach the target analysis the scrap has to be free of excessive moisture, loose cast iron and waste incineration scrap (especially tin cans). Scrap has to be free of visible pieces of metallic copper, tin, lead (and alloys), mechanical parts and debris.	Homogeneous carbon steel chips of known sources. Free of excessive amount of flow chips. Preprocessed for direct charging. Chips from machining steels must be clearly identified. Chips has to be free of any contaminants such as non-ferrous metals, cinder, swarf and excessive oxidized pieces of materials from chemical industries. Prior chemical analysis could be required.	Homogeneous carbon steel chips. Free of excessive amount of flow chips, loose material and chips from machining steels. Preprocessed for direct charging. Chips has to be free of any contaminants such as non-ferrous metals, cinder, swarf and excessive oxidized pieces of materials from chemical industries. Prior chemical analysis could be required.
Thickness	[mm]	-	-	-
Dimensions	[m]	-	-	-
Apparent weight	[t/m ³]	> 0,9	-	-
Share of chips		[%]	< 0,4	No analytical method for measuring the chemical composition specified.
Targeted analysis	Cu	[%]	≤ 0,250	≤ 0,400
	Sn	[%]	≤ 0,020	≤ 0,030
	Cr, Ni, Mo	[%]	-	Σ ≤ 1,0
	S	[%]	-	≤ 0,100
	P	[%]	-	-

Nomenclature		Low alloyed scrap with high content of accompanying elements	Scrap with a high content of residues	Shredded scrap from waste incineration	
Description		Steel scrap	Machine parts and components	Steel scrap from waste incineration (shredded)	
(Sheet)-Thickness	[mm]	-	-	-	
Exaple of materials					
Preliminary processing		Milling, grading, sorting	Milling, grading, sorting	Milling, grading, sorting	
Main processing step		Baling (Option)	Baling (Option)	Baling (Option)	
Exemplary machines for the central processing step					
Machine for the central processing step		Baling press	Baling press	Baling press	
Subsequent treatment process		-	-	-	
Representation of the (intermediate) product					
Intermediate product		Package	Package	Package	
Number of scrap category (EU steel scrap specification)		EHRB	EHRM	E46	
Number of scrap category (ISRI scrap specification)		-	-	-	
Description / Requirement		Post-consumer and pre-consumer scrap mainly consisting of reinforcing steel and rod steel (low diameter). Preprocessed for direct charging. Scrap can be cut, sheared or packaged and has to be free of excessive amounts of concrete or other building materials. To reach the target analysis the scrap has to be free of visible pieces of metallic copper, tin, lead (and alloys), mechanical parts and debris.	Old and new machine parts and components which are not included in the other categories. Preprocessed for direct charging. Scrap possibly includes cast iron pieces (especially housing of mechanical components). To reach the target analysis the scrap has to be free of visible pieces of metallic copper, tin, lead (and alloys), debris, mechanical parts such as bearing shells, bronze rings and others parts.	Shredded scrap from waste incineration. Loose steel scrap produced by a waste incinerating plant for household waste, separated by magnetic separation, shredded into pieces (< 200 mm) which partly contains tin coated steel cans. Preprocessed for direct charging. The scrap has to be free of excessive moisture and rust. To reach the target analysis the scrap has to be free of visible pieces of metallic copper, tin, lead (and alloys) and debris.	
Thickness	[mm]	-	-	-	
Dimensions	[m]	max. 1,5 x 0,5 x 0,5	max. 1,5 x 0,5 x 0,5	-	
Apparent weight	[t/m ³]	> 0,5	≥ 0,6	≥ 0,8	
Share of chips	[%]	< 1,5	< 0,7	Fe-content ≥ 92	
Targeted analysis	Cu	[%]	≤ 0,450	≤ 0,400	≤ 0,500
	Sn	[%]	≤ 0,030	≤ 0,030	≤ 0,070
	Cr, Ni, Mo	[%]	Σ ≤ 0,350	Σ ≤ 1,0	-
	S	[%]	-	-	-
	P	[%]	-	-	-