

PIG IRON

LOW PHOSPHOROUS NODULAR/FOUNDRY/BASIC PIG IRON

A major portion of the 250,000 tons of pig iron manufactured by Sesa Industries Limited caters to niche markets and VALUE ADDED applications. We produce compositions within fairly narrow ranges of specifications with the objective of optimising customer's costs due to non-addition of additives, standardization of process parameters and process procedures and minimization of rejects.

Our customers comprise some of the most reputed foundries in India who manufacture automobile components, Pump and Diesel Engine manufacturers.

We also produce two grades of ductile iron grade pig iron SG50 & SG60, which we also supply to Indian manufacturers of automobile components.

Phosphorus 0.14% max					
GRADE	C%	Si%	P%	S%	Mn%
SG05	3.6-4.5	1.25-1.75	0.14 max	0.07 max	0.4-0.8
SG10	3.6-4.2	1.75-2.25	0.14 max	0.07 max	0.4-0.8
SG20	3.6-4.2	2.00-2.50	0.14 max	0.06 max	0.4-0.8
SG25	3.6-4.2	2.25-2.75	0.14 max	0.06 max	0.4-0.8
SG30	3.6-4.2	2.00-2.50	0.14 max	0.06 max	0.8-1.2
Phosphorus 0.10% max					
SG05X	3.6-4.5	1.25-1.75	0.10 max	0.07 max	0.4-0.8
SG06X	3.6-4.5	1.25 max	0.10 max	0.08 max	0.4-0.8
SG10X	3.6-4.2	1.75-2.25	0.10 max	0.07 max	0.4-0.8
SG20X	3.6-4.2	2.00-2.50	0.10 max	0.06 max	0.4-0.8
SG25X	3.6-4.2	2.25-2.75	0.10 max	0.06 max	0.4-0.8
SG30X	3.6-4.2	2.00-2.50	0.10 max	0.06 max	0.8-1.2
Phosphorus 0.08% max					
SG51	3.6-4.5	1.00-1.50	0.08 max	0.03 max	0.3 max
SG52	3.6-4.5	1.50-2.00	0.08 max	0.03 max	0.3 max
SG55	3.6-4.5	1.80-2.25	0.08 max	0.03 max	0.3 max
SG60	3.6-4.5	0.75-1.25	0.08 max	0.015 max	0.3 max
SG61	3.6-4.5	1.00-1.50	0.08 max	0.015 max	0.3 max
SG62	3.6-4.5	1.50-2.00	0.08 max	0.015 max	0.3 max
SG65	3.6-4.5	1.80-2.25	0.08 max	0.015 max	0.3 max
Phosphorous 0.05% max					
SG80	3.6-4.5	0.75-1.25	0.05 max	0.015 max	0.3 max
SG81	3.6-4.5	1.00-1.50	0.05 max	0.015 max	0.3 max
SG82	3.6-4.5	1.50-2.00	0.05 max	0.015 max	0.3 max
Phosphorous 0.20% max / 0.40% max					
SG10Z	3.6-4.2	1.75-2.25	0.20-0.40	0.070 max	0.40-0.80
SG20Z	3.6-4.2	2.00-2.50	0.20-0.40	0.06 max	0.40-0.80

Note: Pig iron weight: Approximately 5-7 kg per unit

Pig iron size: About 140 mm x 140 mm x 70 mm

Note that Grades SG05, SG05X and SG06X are Basic grade, SG51, SG52, SG55, SG60, SG61, SG62, SG65, SG80, SG81 and SG82 are Nodular grade and the rest are Foundry grade.

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Dry Granulated Slag Specifications

CaO	30 - 35%	TiO₂	0.3 - 0.35%
SiO₂	35 - 37%	Na₂O	0.3 - 0.35%
MgO	8 - 10%	K₂O	0.7 - 0.75%
Al₂O₃	15 - 18%	Glass SiO₂	93 - 95% (85 - 88% for wet slag)
MnO	0.6 - 0.7%	Chloride	0.015 - 0.017%
FeO	1.5 - 1.75 %	Moisture	< 2% (12% for wet slag)
S	0.8 - 0.9 %		