

Reborn 2020



Dara FZE

**Iron Ore Pellete
Sponge Iron (DRI)**



Dara FZE

BB2109, Jafza One, Jebel Ali Free Zone
PO Box 18145 - Dubai, United Arab Emirates
Email: info@dara-enterprises.com



Chemicals:

Element	Test Method	Result (%) Pile 1	Result (%) Pile 2	Result (%) Pile 3	Weighted Average %
Fe (total) %	ISO 2597	65.58	64.81	66.19	65.07
SiO ₂ %	ISO 9516	3.11	3.61	2.40	3.41
Al ₂ O ₃ %	ISO 9516	0.61	0.80	0.55	0.75
S %	ISO 4689	0.013	0.012	0.013	0.012
P %	ISO 9516	0.010	0.001	0.026	0.005
FeO%	ASTM D3872	0.90	0.38	1.23	0.54
CaO%	ISO 9516	0.58	1.50	0.59	1.28
MgO%	ISO 9516	1.43	1.14	1.51	1.22

Physicals:

Test Item	Test Method	Result (%) Pile 1	Result (%) Pile 2	Result (%) Pile 3	Weighted Average %
Abration Index (%)	ISO 3271	2.95	2.63	3.00	2.71
Tumble Index (%)	ISO 3271	96.74	97.05	96.64	96.96
Porosity (%)	---	20.91	25.07	20.38	23.99
CCS Kg/Pellet	ISO 4700	270	294	280	289.21

Sizes:

Size (mm)	Pile 1 (%)	Pile 2 (%)	Pile 3 (%)	Weighted Average (%)
-6.35	0.10	0.15	0.24	0.15
6.35-15.9	95.21	97.07	97.67	96.89
+15.9	4.69	2.78	2.09	2.96
Total	100	100	100	100

**Specifications of Sponge Iron (DRI)**

Parameter	Production Range
Fe(Metallic)	79+ ₋₁ %
Fe(Total)	87+ ₋₁ %
Metallization	Min 91%
C	2+ _{-0.5}
S	Max 0.009%
P	Max 0.05%
SiO ₂	3.5+ _{-0.5}
Al ₂ O ₃	0.7+ _{-0.2}
MgO	2+ _{-0.4}
CaO	0.7+ _{-0.2}
TiO ₂	Max 0.2%
Sizing(<0-5mm)&(16mm>)	Max 9%
Sizing (5-16mm)	Min 91%
Bulk Density	1.7+ _{-0.2}





Test Items	Test Method	Result
%Fe	ISO 9507/2597-1	63.50
%SiO ₂	ISO 2598-1	4.62
%Al ₂ O ₃	ISO 4688-1/6830	0.75
%S	ISO 4689	<0.05
%P	ISO 4687-1	0.048
Zn(ppm)	ISO 9516	147
%K	ISO 13312	0.06
%Na	ISO 13313	0.096

