

Iron Ore – Quality Requirements

	fine ores	pellets	lump ores
Minimum requirements			
chemical (%) :			
Fe-content	> 65	-	> 63
SiO ₂	< 3	-	-
Mn	< 0,5	-	-
Al ₂ O ₃	< 1,5	-	-
MgO + CaO	< 2	-	-
K ₂ O+Na ₂ O	< 0,1	-	-
P	< 0,06	-	-
S	< 0,1	-	-
mechanical:			
grain size (mm)	< 8	-	-
metallurgical	-	acid, basic	-
tumbler strength ISO 3271 (%)			
strength > 6,3 mm	-	> 95	> 85
abrasion < 0,5 mm	-	< 5	< 10
RUL ISO 7992			
dP at a reduction degree of 80 %	-	< 15 mm WS	< 20 mm WS
reducability ISO 4695 (% /min)	-	> 0,8	> 1
LTD ISO 13930 (%)			
strength > 6,3 mm	-	> 80	> 60
abrasion < 3,15 mm	-	< 15	< 35