

Nordic Iron Ore produces high quality iron concentrate in pilot scale metallurgical tests.

As part of the ongoing feasibility study for the restart of the Blötberget mine in Ludvika Sweden, Nordic Iron Ore has recently concluded pilot scale metallurgical trials at GTK test facilities in Finland. A 150 tonne bulk sample of typical ore was taken from the site at Blötberget, from which a 20 tonne feed sample was blended for the semi continuous pilot scale trials. The ores from Blötberget proved to be readily amenable to concentration using conventional process equipment, crushing, grinding, magnetic separation, spiral classification and flotation. The trials produced close to 8 tonnes of magnetite and hematite concentrates (13:1), which when blended defined a product with >70%Fe content and low gangue mineral content (see below for details). These concentrates are now available to potential customers for testing to determine the suitability for use in their iron making processes.

The product is of the highest qualities available in the iron ore market and should be desirable to the nearby European markets.

“The results are very encouraging and an important milestone in the project, as these shows that we can expect to produce a high quality niche product at a competitive cost level, being especially important in the current challenging market situation. Also the positive environmental impact and value in use effect for future customers planning to use our product are additional benefits”, commented Christer Lindqvist, President of Nordic Iron Ore AB.

Products	size	% of Fe recovery	SG g/cm ³	Total Iron	Phosphorous	Silica	Alumina	Lime	Sulphur	Magnesium oxide	Vanadium oxide	Titanium oxide
Blötberget	mm	%		Fet	P	SiO ₂	Al ₂ O ₃	CaO	S	MgO	V ₂ O ₅	TiO ₂
Blötberget composite (Av)		*	**	32.50	0.029	41.40	5.44	1.33	<0.05	3.57	0.03	0.20
Blötberget feed composite		100.0		36.20	0.230	37.70	4.66	1.24	<0.05	3.37	0.03	0.19
Magnetite	<0.15	93.0	2.4	70.60	0.040	2.01	0.29	0.16	0.01	0.30	0.05	0.05
Hem conc	<0.15	7.0	2.5	66.00	0.059	3.80	0.46	0.33	0.01	0.31	0.02	0.06
Composite	<0.15	100.00	2.50	70.30	0.041	2.14	0.30	0.17	0.01	0.30	0.05	0.10
* Not optimised recovery of iron												
** SG based on filter cake compressed at around 6% moisture - dry this can rise to 3.2												
SizeDistribution:	Micron	Wt% pass										
	710	100										
	500	100										
	250	99.7										
	125	94.7										
	90	83.0										
	75	71.0										
	32	28.8										

For further information: Christer Lindqvist, CEO 46 (0)240-88301
christer.lindqvist@nordicironore.se

Nordic Iron Ore Group is a mining company with the ambition to revive and develop the iron ore production of Ludvika Mines in Blötberget and Håksberg. The company also intends to expand its mineral resources, and upgrade them to ore reserves, primarily through exploration and other studies of the connecting Väsman field. For more information, see www.nordicironore.se.