DEPARTMENT OF Metallurgical & Materials Engineering

REPORT

TITLE Sintering	of iron	ore pellets

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Section	_Year_ 4th (2023)
Signature 0094	
Date of Experiment 4/10/2023	

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Jitle	TAGE IVO
Sintering of vion one pellets	
Procedure:	
Ray Material beck as at me	
From one fines, typically less mixed with coke breeze and	than 6 mm in size are
mixed with coke weers and	limestone
Purpose of these materials is ly enhancing the premeability	to improve positiating
by enhancing the premeability	y of hed whe questions
all on account of your your you	
Allet formation	1. mary us manufacture
Pellet formation With approx 3kg of blend	mux guras, acc
hellets in disc pelletizer.	, to get strength
year pellets are died in ai	
mixing and hed formation	ed hollets and 3 kg of
with principly manufacture	ér.
lund nuc, we propose	ointer was arranged
In sintering strand, rewer	aterial flow and give
access to gas flow during	3 suction
shoul return sinter layer	blend min and premously
I herehard hellets was howy	ed in layer with sufficient
amount of cake into it.	
A bed height of approx 7 cm	was made and ready
Date	Signature

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	Sor hardening Sgnition and heating: Sinter min on strand is ignited with cotton, wood chips and mobile oil. The suction fumpand cooling water is kept 'on' and ignition starts. Jemperature of strand reaches to 1100-1200°C at about 15 minutes of suntering, the strand becomes red hot and this indicates the heating of min upto bottom Sintering: Suring heating process, the iron ore min and pellets, begin to fuse together. This fusion process rawes agglomeration and forms a solid coherent mass. Cooling and breaking: After sintering is completed, the sinter lied is cooled down and broken into smaller pieces and screened to separate it into different size range
	to seperate it into different size savinge

Signature