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**Assmang (Proprietary) Limited Iron Ore Division – Khumani Mine**  
**Lumpy Iron Ore Specifications**  
**(6.3 mm x 31.5 mm)**

**Lumpy - Chemical Specification**

	Minimum (%)	Maximum (%)	Typical (%)
Fe	65.00		65.25
SiO <sub>2</sub>		4.50	4.25
Al <sub>2</sub> O <sub>3</sub>		1.80	1.50
P		0.045	0.041
S		0.020	0.015
K <sub>2</sub> O			0.28
Na <sub>2</sub> O			0.020
TiO <sub>2</sub>			0.050
CaO			0.030
MgO			0.020
Mn			0.15 – 0.50
Cu			<0.01
V			0.011
LOI(1000°C)			0.5 – 0.9
H <sub>2</sub> O		2.00	0.80

**Lumpy - Physical Specification**

	Typical (%)	Maximum (%)
>31.5 mm	2.00	5.00
-31.5 mm + 25mm	15.00 – 22.00	
-25 mm + 18 mm	38.00	
-18 mm + 12.5 mm	34.00	
-12.5 mm + 10 mm	3.00	
-10 mm + 8 mm	2.00	
-8 mm + 6.3 mm	1.00	
<6.3mm	3.00 – 6.00	10.00