



## HIGH GRADE ORE

Manganese – symbol Mn – is the fourth most used metal in the world (after iron, aluminium and copper). Manganese is never used in its own right (as a pure metal), but it's an important raw material for many applications.

The final market for over 90% of all Mn ore produced is steelmaking. Ore is transformed into ferroalloys (silico-manganese or ferro-manganese) or manganese metal. These are essential raw materials for carbon and stainless steel as alloying elements, desulphurizing agents and deoxidizers in the metallurgical process.

The remaining 10% is used to produce a range of Mn compounds, indispensable in the chemical industry for the production of batteries, fertilizers, pigments and different reagents.

Comilog's "Compagnie Minière de l'Ogooué" produces high grade oxidized ore at its Moanda mine in Gabon. The saleable products come in different grades and sizes and some ore fines are processed locally into Sinter.

## CHEMICAL COMPOSITION

Comilog products specifications – Metallurgical grades

	Typical	Guaranteed
Mn	56.50 %	56.00 %
SiO <sub>2</sub>	7.50 %	
Al <sub>2</sub> O <sub>3</sub>	6.50 %	
Fe	4.50 %	
P	0.12 %	0.14 %
K <sub>2</sub> O	0.85 %	

## SIZING

10 % typical when < 5 mm between 5 – 75 mm at Owendo port.



## PACKING

SINTEC® is only delivered in bulk.

## CHARACTERISTICS

An agglomerated material with high manganese content, intended mainly for the production of HCFeMn and its by-products.

The material is low in impurities (silica, alumina, potash) and its texture (dry, stable production at high temperature 1200°C) gives the material exceptional quality in terms of permeability and productivity, and makes it an ideal complement for MMR Comilog ore, providing stability and security in the alloy production process.

The low iron content provides a good complimentary product for ferrous rich ores.

Its sizing provides a broad size range which creates a very permeable structure improving the gaseous reduction process.

Comilog ore has naturally a very low Boron content of around 10 ppm which enables production of low boron Mn-alloys needed for applications such as line pipe or shipbuilding to limit embrittlement issues and to improve welding process.



Web: <http://www.eramet.fr> – Contact: [sales@eramet-comilog.com](mailto:sales@eramet-comilog.com)



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