
GLOSSARY OF TERMS, ABBREVIATIONS, UNITS AND CHEMICAL ELEMENTS

GLOSSARY

aeolian	erosion, transport, and deposition of material due to the action of wind at or near the earth's surface
alluvial	water transported, sedimentary deposit
anticline	arch-shaped fold in rocks, closing upwards, with the oldest rocks in the core
antiformal	arch-shaped rock structure, closing upwards, but in which it may not be possible to determine the oldest rocks
archaean	that period of geological time prior to 2.5×10^9 years before present, i.e. the earliest part of the pre-Cambrian
arcuate	arch like in shape
arenaceous	term describing sedimentary rocks with a modal grain size in the sand fraction
argillaceous	term describing sedimentary rocks with a modal grain size in the silt fraction
assay	the chemical analysis of mineral samples to determine the metal content
atomic absorption	an instrumental analytical technique based on the principle that atoms of elements in the ground state are able to absorb radiation of the same characteristic wavelength, as they would normally emit if excited
basinal	a basin like depression that may be erosional or structural in origin
bayesian	a statistical method that regards parameters of a population as random variables having known probability distribution
Belfast Project	Belfast Coal Project
braided	divergence of stream channels into complex system of smaller channels
breccia	coarse angular rock fragments or rubble, may be unconsolidated or cemented
capital expenditure	all other expenditures not classified as operating costs
carbonaceous	carbon rich
channel	watercourse, also in this sense sedimentary material course
chert	granular silica
Chifeng	Chifeng Kumba Hongye Zinc Corporation Limited
clast	rock fragments formed in a sequence of sedimentary rocks
co-kriging	kriging using more than one type for sampling data
comminution	the term used to describe the process by which ore is reduced in size in order to liberate the desired mineral from the gangue material in preparation for further processing
composite	combining more than one sample result to give an average result over a larger distance
concentrate	a metal-rich product resulting from a mineral enrichment process such as gravity concentration or flotation, in which most of the desired mineral has been separated from the waste material in the ore
conglomerate	detrital sedimentary rock
crosscut	a horizontal underground drive developed perpendicular to the strike direction of the stratigraphy
crushing	initial process of reducing ore particle size to render it more amenable for further processing
cut-off grade	the grade of mineralised rock which determines as to whether or not it is economic to recover its gold content by further concentration
decline	a surface or sub-surface excavation in the form of a tunnel which is developed from the uppermost point downwards
desalination	chemical process of removing salt from contaminated water
dextral	right hand displacement on a fault plane
diabase	rock type of basaltic composition
dilution	waste which is unavoidably mined with ore

dip	angle of inclination of a geological feature/rock from the horizontal
distal	distant from source
downcast	a ventilation system whereby air is forced downwards through a tunnel or shaft, from the point of entry by ventilation fans
drill-hole	method of sampling rock that has not been exposed
dyke	thin, tabular, vertical or near vertical body of igneous rock formed by the injection of magma into planar zones of weakness
epigenetic	feature being described had a separate genesis to the host material
Eskom	Eskom Limited
exceedance	the amount by which something, especially a pollutant, exceeds a standard or permissible measurement
exhalative	derived from the release of gases or brines from deep in the earth's crust
extensional faults	faulting resulting in the extension of the earth's crust
extrusion	rock solidified from magma on the earth's surface
Eyesizwe	Eyesizwe Coal (Proprietary) Limited
facies	a rock unit defined by its composition, internal geometry and formation environment
fault	the surface of a fracture along which movement has occurred
filtration	process of separating usually valuable solid material from a liquid
fine/s	iron ore in a powder like form
flotation	the process by which the surface chemistry of the desired mineral particles is chemically modified such that they preferentially attach themselves to bubbles and float to the pulp surface in specially designed machines. the gangue or waste minerals are chemically depressed and do not float, thus allowing the valuable minerals to be concentrated and separated from the undesired material
fluvial	pertaining to the processes and actions of a river/stream
flux	substance used to promote the melting of another substance to which it is added
fold	plastic deformation of previously horizontal rock strata
footwall	the underlying side of an orebody or stope
gangue	non-valuable components of the ore
Glen Douglas	Glen Douglas Dolomite (Proprietary) Limited
graben	a block of rock that lies between two faults and has moved downward to form a depression between the two adjacent fault blocks. See also horst
grade	the measure of concentration of gold within mineralised rock
granitoids	a term used to encompass granitic rock types
Grootegeeluk Mine	Grootegeeluk Coal
growth algorithm	the mathematical interpolation technique used to estimate a regularised grid of values from a set of random data points in space
hangingwall	the overlying side of an orebody or slope
haulage	a horizontal underground excavation which is used to transport mined ore
hiding power	the ability of paint or stain to obscure the surface over which it has been applied. Hiding power is provided by the paint's pigment, and is affected by how thickly the paint tends to apply and how well brush marks flow out
horst	a block of rock that lies between two faults and has moved upward relative to the two adjacent fault blocks. See also graben
Hyason Cells	a mat comprising square, hollow geocells fabricated from thin plastic film
hydrocyclone	a process whereby material is graded according to size by exploiting centrifugal forces of particulate materials
hydrothermal	process of injection of hot, aqueous, generally mineral-rich solutions into existing rocks or features
igneous	primary crystalline rock formed by the solidification of magma
Ingcambu Project	Ingcambu Coal Project

Indicated Mineral Resource	that part of a mineral resource for which tonnage, densities, shape, physical characteristics, grade and mineral content can be estimated with a reasonable level of confidence. it is based on exploration, sampling and testing information gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes. the locations are too widely or inappropriately spaced to confirm geological and/or grade continuity but are spaced closely enough for continuity to be assumed
Inferred Mineral Resource	that part of a mineral resource for which tonnage, grade and mineral content can be estimated with a low level of confidence. it is inferred from geological evidence and assumed but not verified geological and/or grade continuity. it is based on information gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes which may be limited or of uncertain quality and reliability
intercalated	existing or introduced between layers of a different type
intrusive	pertaining to rocks formed by the injection of magma into pre-existing rock and solidified by cooling beneath the surface
inverse distance	interpolation method of assigning values from samples to blocks based on the distance of the samples to the block centroid
Inyanda Project	Inyanda Coal Project
Iscor	the Iron and Steel Corporation Limited
isoclinal folding	a fold in which the two limbs are parallel
Jurien Project	Jurien project
karst towers	remnant pinnacles of limestone following weathering of the surrounding rock
kriging	an interpolation method of assigning values from samples to blocks that minimises the estimation error
Kumba Coal	Kumba Coal (Proprietary) Limited
Kumba FerroAlloys	Kumba FerroAlloys (Proprietary) Limited
Leeuwpan Mine	Leeuwpan Coal Mine
lenticular	in the form of elongated lenses
level	horizontal tunnel the primary purpose is the transportation of personnel and materials
lineament	a large-scale linear feature which expresses itself in terms of topography, which is in itself an expression of underlying structural features
listric	a curved extensional fault which characteristically flattens at depth
lithological	geological description pertaining to different rock types
log-kurtosis	statistical parameter describing the peakedness of the curve of the log-frequency distribution of the population
log-mean	arithmetic average of the log values of the population
lognormal	term applied to a population whose distribution approximates to normality when the logarithms of the values are taken
log-skewness	statistical parameter describing the asymmetry of the curve of the log-frequency distribution of the population
log-variance	the square of the standard deviation of the log values of the population
lom plans	life-of-mine plans
longwall mining	a mining method which incorporates breast mining over large continuous spans without the use of pillars
lump	lumpy iron ore
macro-kriging	type of kriging used for long range estimation where sampling information is sparse
mafic	applied to any igneous rock that has a high proportion of pyroxene and olivine
Mafube JV Phase II Project	Mafube Joint Venture
Material Properties	operating properties as defined in Section 1.1
Matla Project	Matla 5 Seam Coal Project
Measured Mineral Resource	that part of a mineral resource for which tonnage, densities, shape, physical characteristics, grade and mineral content can be estimated with a high level of confidence. it is based on detailed and reliable exploration, sampling and testing information gathered through appropriate techniques from locations such as outcrops, trenches, pits, workings and drill holes. the locations are spaced closely enough to confirm geological and grade continuity

mesozoic	era of geological time between 240 x 106 and 63 x 106 years ago
metamorphism	structural and/or chemical alteration of rocks and minerals by heat, pressure and/or chemical processes
metasediments	metamorphosed sedimentary rock
milling	a general term used to describe the process in which the ore is crushed and ground and subjected to physical or chemical treatment to extract the valuable metals to a concentrate or finished product
Mine, Health and Safety Act	Mine, Health and Safety Act, 29 of 1996
mineral/mining lease	a lease area for which mineral rights are held
Mineral Reserve	the economically mineable material derived from a measured and/or indicated mineral resource. it is inclusive of diluting materials and allows for losses that may occur when the material is mined. appropriate assessments, which may include feasibility studies, have been carried out, including consideration of, and modification by, realistically assumed mining, metallurgical, economic, marketing, legal, environmental, social and governmental factors. these assessments demonstrate at the time of reporting that extraction is reasonably justified. mineral reserves are sub-divided in order of increasing confidence into probable mineral reserves and proved mineral reserve
Mineral Resource	a concentration (or occurrence) of material of economic interest in or on the earth's crust in such form, quality and quantity that there are reasonable and realistic prospects for eventual economic extraction. the location, quantity, grade, continuity and other geological characteristics of a mineral resource are known, estimated from specific geological evidence and knowledge, or interpreted from a well constrained and portrayed geological model. mineral resources are sub-divided in order of increasing confidence, in respect of geoscientific evidence, into inferred, indicated and measured categories
mineral rights	a right or any share therein acquired, in terms of the minerals act to any right to dig or mine
Minerals Act	the Minerals Act, 50 of 1999
MINEX	the name of a commercial geological and mining modelling suite of computer software, used to build three dimensional geological models (HORIZON) and mine design and scheduling (APOLLO)
mining assets	the material properties and significant exploration properties as defined in Section 1.1
mining authorisation	any authorisation issued in terms of the Minerals Act
Mittal Steel	Mittal Steel South Africa Limited
normal fault	fault in which the hangingwall moves downward relative to the footwall
nugget effect	a measure of the randomness of the grade distribution within a mineralised zone
on-going capital	capital estimates of a routine nature which are necessary for sustaining operations
oolitic	composed largely of sub-spherical, sand sized, carbonate particles that have concentric rings of calcium carbonate surrounding a nucleus of another particle
ordinary kriging	a common type of kriging used when sampling information is relatively dense
ore reserve	see mineral reserve
palaeo strandlines	an ancient shoreline where the relative positions of land and water remain stable long enough for features to form
palaeocurrent	ancient water course direction
palaeotopographic	pertaining to ancient topography
palaeozoic	the era ranging in time from 600 – 230 million years ago
petrographic	systematic description and interpretation of rock textures and mineralogy in thin section
pillar	rock left behind to help support the excavations in an underground mine
placer	concentration of heavy minerals in a fluvial system
pleistocene	a period of time which is a sub-division of the tertiary
pliocene	a period of time which is a sub-division of the tertiary
polymictic	describing clastic sedimentary rock composed of a variety of fragment types
pre-Cambrian	that period of time from the consolidation of the earth's crust to the base of the palaeozoic
pre-concentration	processing of the ore, usually screening, before treatment at the plant

Probable Mineral Reserve	the economically mineable material derived from a measured and/or indicated mineral resource. It is estimated with a lower level of confidence than a proved mineral reserve. It is inclusive of diluting materials and allows for losses that may occur when the material is mined. Appropriate assessments, which may include feasibility studies, have been carried out, and including consideration of, and modification by, realistically assumed mining, metallurgical, economic, marketing, legal, environmental, social and governmental factors. These assessments demonstrate at the time of reporting that extraction is reasonably justified
project capital	capital expenditure which is associated with specific projects of a non-routine nature
proterozoic	era of geological time between 2.5 x 10 ⁹ and 570 x 10 ⁶ years ago
Proved Mineral Reserve	the economically mineable material derived from a measured mineral resource. it is estimated with a high level of confidence. it is inclusive of diluting materials and allows for losses that may occur when the material is mined. appropriate assessments, which may include feasibility studies, have been carried out, including consideration of and modification by realistically assumed mining, metallurgical, economic, marketing, legal, environmental, social and governmental factors. these assessments demonstrate at the time of reporting that extraction is reasonably justified
proximal	near to a source
quartzite	metamorphic rock composed of quartz
remnant	ore blocks left behind as a result of the underground mining method
restructuring	the restructuring of the mining assets of Iscor Limited
reverse/thrust fault	fault in which hangingwall moves upwards relative to the footwall
ring dyke method	a method of depositing tailings material
Rosh Pinah	Rosh Pinah Zinc Corporation (Proprietary) Limited
SANS 10320: 2004	the South African National Standard developed by the Coal sub-Committee of the SAMREC committee that deals with all coal related resource and reserve disclosures
SABLE	name of a commercial geological software package that specialises in the storage and collation of geological data into a relational database
Sasol	Sasol Limited
SAMREC Code	South African Code for Reporting of Mineral Resources and Mineral Reserves
sedimentary	pertaining to rocks formed by the accumulation of sediments, formed by the erosion of other rocks
SEP	Sishen Expansion Project
shaft	an opening cut downwards from the surface for transporting personnel, equipment, supplies, ore and waste
significant	the exploration properties of Kumba as tabulated in Table 1.2
sill	a thin, tabular, horizontal to sub-horizontal body of igneous rock formed by the injection of magma into planar zones of weakness
simple kriging	a type of kriging, which uses a known area mean value as well as sample values
sinistral	left hand displacement on a fault plane
Sishen Iron Ore	Sishen Iron Ore Company (Proprietary) Limited
Sishen Mine	Sishen Iron Ore Mine
smelting	a high temperature pyrometallurgical operation conducted in a furnace, in which the valuable metal is collected to a molten matte or doré phase and separated from the gangue components that accumulate in a less dense molten slag phase
SRK Group	SRK Global Limited
stope	underground void created by mining
stratigraphy	study of stratified rocks in terms of time and space
strike	direction of line formed by the intersection of strata surfaces with the horizontal plane, always perpendicular to the dip direction
subcrop	describing a rock stratum that unconformably underlies another rock stratum
sub-vertical shaft	an opening cut below the surface downwards from an established surface shaft
sulphide	sulphur bearing mineral
supergene enrichment	re-precipitation of sulphides and oxides by descending acidic groundwater which has leached the surface zone of an ore deposit

surface sources	ore sources, usually dumps, tailings dams and stockpiles, located at the surface
syncline	concave fold in stratified rock in which the strata dip down to meet in a trough
syngenetic	feature being described had a common genesis as its host material
tailings	finely ground waste rock from which valuable minerals or metals have been extracted
tectonism	deformation within the earth's crust and its consequent structural effects
tertiary	the period in time which elapsed between 65 million years ago and the present
tertiary shaft	an opening cut below the surface downwards from an established sub-vertical shaft
STRATMODEL	the commercial geological modelling software marketed by MINCOM of Brisbane, Australia
Thabazimbi Mine	Thabazimbi Iron Ore Mine
the Mine, Health and Safety Act	the Mine Health and Safety Act, 29 of 1996
the Minerals Act	the Minerals Act, 50 of 1991
thickening	process of concentrating solid particles in suspension
Thompson-Howarth Process	In brief, the Thompson-Howarth method is a way of estimating analytical precision from duplicate assay results. It is a graph where the x-axis represents the mean value of the duplicate results sorted from lowest to highest and then grouped into groups of 11) and the y-axis indicates the median absolute difference of the same groups of 11 samples (grouped according to ascending mean values)
thrust fault	see reverse fault
Ticor Limited	Ticor Limited Australia
Ticor SA	Ticor South Africa KwaZulu-Natal Limited
Ticor Smelter	Ticor South Africa (Proprietary) Limited
Tiwest JV	Tiwest JV (Proprietary) Limited Joint Venture
total cash costs	all total cash costs are based on public quoted nominal production costs, include retrenchment costs, rehabilitation costs, corporate costs, by-product credits for silver, sundry revenues, and exclude amortisation costs and inventory changes
total expenditure	all expenditures including those of a operating and capital nature
Transnet	Transnet Limited
trust fund	a fund required by law to be set up, to which annual contributions are paid so that the remaining environmental liability of the operation is covered
Tshikondeni Mine	Tshikondeni Coal Mine
unconformity	buried erosion surface separating two rock masses; older exposed to erosion for long interval of time before deposition of younger
upcast	a ventilation system whereby air is drawn upwards through a tunnel or shaft, from the point of entry by ventilation fans
variogram	statistical representation of the characteristics (usually grade)
virgin ground	ground that has had no previous mining activity within it
vitritinite	a maceral, or petrological unit of coal, analogous to a mineral in non-organic rock
XPAC	the mine scheduling software developed by RUNGE Mining of Brisbane, Australia
Zincor	Zinc Corporation of South Africa
Zincor Refinery	Zincor Base Metals smelter and refinery

ABBREVIATIONS

AA	atomic absorption
AAS	atomic absorption spectrometry
AARL	Anglo American Research Laboratories
ADR	American Depositary Receipts
ADTs	articulated dump trucks
AIDS	the Acquired Immune Deficiency Syndrome
AMSL	above mean sea-level
BID	base information date
BIF	banded iron formation
BQ	diamond drill core size 36.5mm in diameter
CoG	cut-off grade
COR	Certificate of Registration
CPC	Central Processing Complex
CPI	Consumer Price Index
CPR	Competent Persons' Report
CS	Coarse Sinter iron ore
CSO	Central Survey Office
DBIRD	Department of Business, Industry and Resource Development (Australia)
DCF	discounted cash flow
DEAT	Department of Environment and Tourism (South Africa)
DIFR	disabling injury frequency rate
DM	dense medium
DME	Department of Minerals and Energy
DMS	Dense Medium Separation
DOIR	Department of Industry and Resources (Australia)
DR	direct reduction
DRS	direct reduction sinter
DTM	digital terrain model
DWAF	Department of Water Affairs and Forestry
EB	Expenditure Base
ECA	Environmental Conservation Act (South Africa)
EIA	Environmental Impact Assessment
EMP	Environmental Management Programme
EMPR	Environmental Management Programme Report
EOF	Eastern Ore Field
EPA	Environmental Protection Act (Australia)
EPL	Exploration Prospecting Licences
EPBC	Environmental Protection and Biodiversity Conservation
FA	fire assay
FAT	Fraser Alexander Tailings
FEL	Front End Loader
FFR	fatality frequency rate
FM	Financial Models
FOB	free onboard
GIS	Geographical Information System
GPS	Global Positioning System
GDP	Gross Domestic Product
GG1	Grootegeeluk coal beneficiation plant No.1

GG2	Grootegeeluk coal beneficiation plant No. 2
GG3	Grootegeeluk coal beneficiation plant No. 3
GG4	Grootegeeluk coal beneficiation plant No. 4
GG5	Grootegeeluk coal beneficiation plant No. 5
GG6	Grootegeeluk coal beneficiation plant No. 6
GN	Government Notice
H	Horizontal
HIV	Human immuno deficiency virus
HMC	Heavy Mineral Concentrates
HMS	Heavy Medium Separation
HQ	diamond drill core size 63.5mm in diameter
ICRG	International Country Risk Grade
IHM	Iscor Heavy Minerals
IMC	International Mining Consultants
IRR	the Internal Rate of Return (the discount rate which applies when NPV = 0)
ISO	International Standards Organisation
IWULA	Integrated Water Use Licence Application
JORC	Joint Ore Reserves Committee of the Australasian Institute of Mining and Metallurgy
JSE	JSE Limited
LM	Land Management
L	Level
LAC	Low Ash Coal
LHD	Load haul dump
LME	London Metal Exchange
LMPI	low manganese pig iron
MCF	Mine Call Factor
MEE	Multiple of Exploration Expenditures
MMW	Minimum mining width
MDL	Mineral Deposits Limited
MDS	Mineral Density Separator
MPRDA	Mineral and Petroleum Resources Development Act
MRNL	Madagascar Resources NL
MSP	Mineral Separation Plant
NAR	Net As Received calorific value is the lower expected useful calorific content taking into account the latent heat of the water vapour produced
NASDAQ	National Association of Securities Dealers Automated Quotation System
NGO	Non-Governmental organisation
NNR	National Nuclear Regulator (South Africa)
No.	Number
NYSE	New York Stock Exchange, Inc
NPV	Net present value
NUM	National Union of Mineworkers
NQ	diamond drill core size 47.6mm in diameter
OECD	the Organisation for Economic Co-operation and Development
OHS	Occupational Health and Safety
OHSAS	Occupational Health and Safety Assessment Series
OK	ordinary kriging
ONE	Office de l'Environnement (Madagascar)

op1	reflects Mineral Resources within the open-pit shell used for the base case LoM Plan to define Mineral Reserves
op2	reflects Mineral Resource potential external to open-pit shell for base case LoM Plan but internal to the open-pit shell for Mineral Resource definition
op3	reflects material >60%Fe that is beyond the open-pit shell for Mineral Resource definition but considered potential for UG mining
PCI	pulverised coal injection
PCP	primary concentrating plants
PEM	Prospectivity Enhancement Multiplier
PPP	Purchase Price Parity
PWP	Primary Wet Plant
QA/QC	Quality Assurance and Quality Control
RoM	Run-of-Mine
RoR	Rate of Rise
SABS	South African Bureau of Standards
RBCT	Richard's Bay Coal Terminal
RC	Reverse circulation
RoR	Rate of Rise
RSA	Republic of South Africa
SAMREC	South African Mineral Resource Committee
SANAS	South African National Accreditation System
SANS	South African National Standard
SARS	South African Revenue Services
SEC	United States Securities and Exchange Commission
SEDEX	sedimentary exhalative base metal
SEP	Sishen Expansion Project
SHE	Safety, Health and Environment
SHEQ	Safety, Health, Environment and Quality
SLP	Social Labour Plan
SMU	Selective Mining Unit
SR	synthetic rutile
SRP	synthetic rutile plant
SSF	Sasol Synthetic Fuels
SRK	collectively, SRK South Africa (Proprietary) Limited and Steffen, Robertson and Kirsten (UK)
SRK Group	SRK Global Limited
TBE	tetra-bromo-ethane
TBL	terminal benefits liability
TEC	Total Employees Costed
TE Models	Technical Economic Models
TEMs	Technical Economic Models
TEPs	Technical Economic Parameters
THM	Total Heavy Mineral
TIFR	Total injury frequency rate
TZMI	TZ Minerals International Proprietary Limited
UG	underground
US	the United States of America
USA	the United States of America
V	Vertical
VHM	valuable heavy minerals
WACC	weighted average cost of capital
WHIMS	Wet High Intensity Magnetic Separation
WRC	Water and Rivers Commission (Australia)
XRF	X-Ray fluorescence

UNITS

bar	a unit for measuring pressure
cm	a centimetre
cmg/t	a centimetre gramme per tonne – a measure of metal accumulation
g	grammes
g/cc	grammes per centi-litre
g/t	grammes per metric tonne – gold concentration
Ha	a Hectare
hrs	hours
k	one thousand units
kg	a kilogram
km	a kilometre
koz	a thousand ounces
kt	a thousand metric tonnes
ktpm	a thousand metric tonnes per month
m	a metre
m ²	a square metre – measure of area
m ³	a cubic metre
mm	a millimetre
Moz	a million troy ounces
mpa	metres per annum
ms ⁻¹	metres per second
Mt	a million metric tonnes
Mtpa	a million metric tones per annum
MW	a million watts
oz	a fine troy ounce equalling 31.10348 grammes
pa	per annum
Pa	a Pascal – a measure of pressure
pHa	per Hectare
s	a second
t	a metric tonne
tpa	metric tonne per annum
tpd	metric tonne per day
tpm	metric tonne per month
tm-3	density measured as metric tonnes per cubic metre
t _w : t _o	Total waste to Total Ore
AUDm	a million Australian Dollars
AUD	Australian Dollar
NADm	a million Namibian Dollars
NAD	Namibian Dollar
RenMinBi	currency of the People's Republic of China
USDm	a million United States Dollars
USD	United States Dollar
USD/oz	United States Dollars per fine troy ounce
USD/t	United States Dollars per tonne
USc/t	United States cents per tonne
Usc/lb	United States cents per pound
ZAR	South African Rand
ZARm	South African Rand million
ZAR/t	Rand per tonne
°	degrees
°C	degrees centigrade
'	minutes
%	percentage

CHEMICAL ELEMENTS

Al_2O_3	Aluminium oxide
Ba	Barium
CaO	Calcium oxide
FeO	Iron oxide
K_2O	Potassium oxide
MgO	Magnesium oxide
MnO	Manganese oxide
Na_2O	Sodium oxide
P_2O_5	Phosporous oxide
S	Sulphur
Sr	Strontium
TiO_2	Titanium oxide
$55\% < \text{Fe} < 60\%$	Iron content between 55% and 60%