



MINERALS AND RAW MATERIALS

30 years of
experience

30 years of
experience



your **solution**
partner

accumulation and
experience

MAGNESITE (MgCO_3)

**CAUSTIC CALCINED
MAGNESIA**



MAGNESITE (MgCO³)

Tecnodieci company Raw Magnesite capacity more than 100.000 tons per years. Tecnodieci Magnesite has a commercial precense all over the world and imporante area



Tecnodieci Magnesite TDM.S (POWDER)	MgCO ³ : min. 94,00 %	CaO : max. 3.00 %
	MgO : min. 44,00 %	Fe ₂ O ₃ . : max. 0.25 %
	SiO ² : max. 3.50 %	Grain size. : 0-63 microns 95 %
	Packing Detail : Bigbag (500-700-1200 KG) and 25 kg bag	
Magnesite Product Lump in Bulk	MgCO ³ : min. 90,00 %	CaCO ³ : max.4.00 %
	MgO : min. 42,50 %	Fe ₂ O ₃ . : max. 0.50 %
	SiO ² : max. 3.80 %	Size : 0.5-20 cm 95 %



CAUSTIC CALCINED MAGNESIA

Caustic Calcined Magnesia (CCM) is reactive form of MgO produced by firing magnesite at temperatures between 650-1000 C . Tecnodieci produces wide arange of CCM products with different physical and chemical properties such as purity level, reactivity and surface area.

CCM. Can Be Usedin:

Agricultural Applications, Pulp and Paper, Construction and Sorel cement, Hydrometallurgical processes, Chemicals and phamaceuticals ind., Glass industry, Envir omental applications.

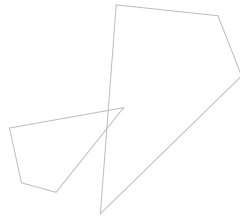


CHEMICAL ANALYSIS

MgO	%	96,63
MgO (Loss Free)	%	97,86
SiO ₂	%	0,32
CaO	%	1,74
Fe ₂ O ₃	%	0,03
L.O.I	%	1,23

Reaktivite (sn)/C.A. Reactivity (sec.) 22





BENTONITE

Tecnodieci gring Bentonite having use in the ceramic sector (tile,sanitary and tablewere) in the industry sence, to very fine sizes such as below -75 micron in our micronized grinding factory.

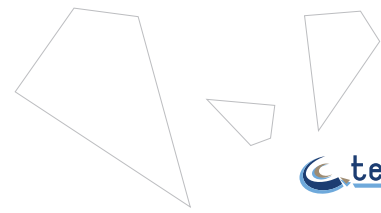


CHEMICAL ANALYSIS		
SiO ₂	%	73,85
Al ₂ O ₃	%	13,41
Fe ₂ O ₃	%	1,04
CaO	%	1,24
MgO	%	1,64
Na ₂ O	%	0,85
K ₂ O	%	1,23
LOI	%	6,58

PHYSICAL ANALYSIS		
Montmorillonite	%	80-85
Grit Content	%	1 max
Moisture	%	Max 8
Swelling	ml2 gr	14-15
Raw Whiteness	%	94-96
Water of Plasticity	%	65-70
L	%	Min. 78
A	%	0,07
B	%	10,00
Size	Mesh	200,00

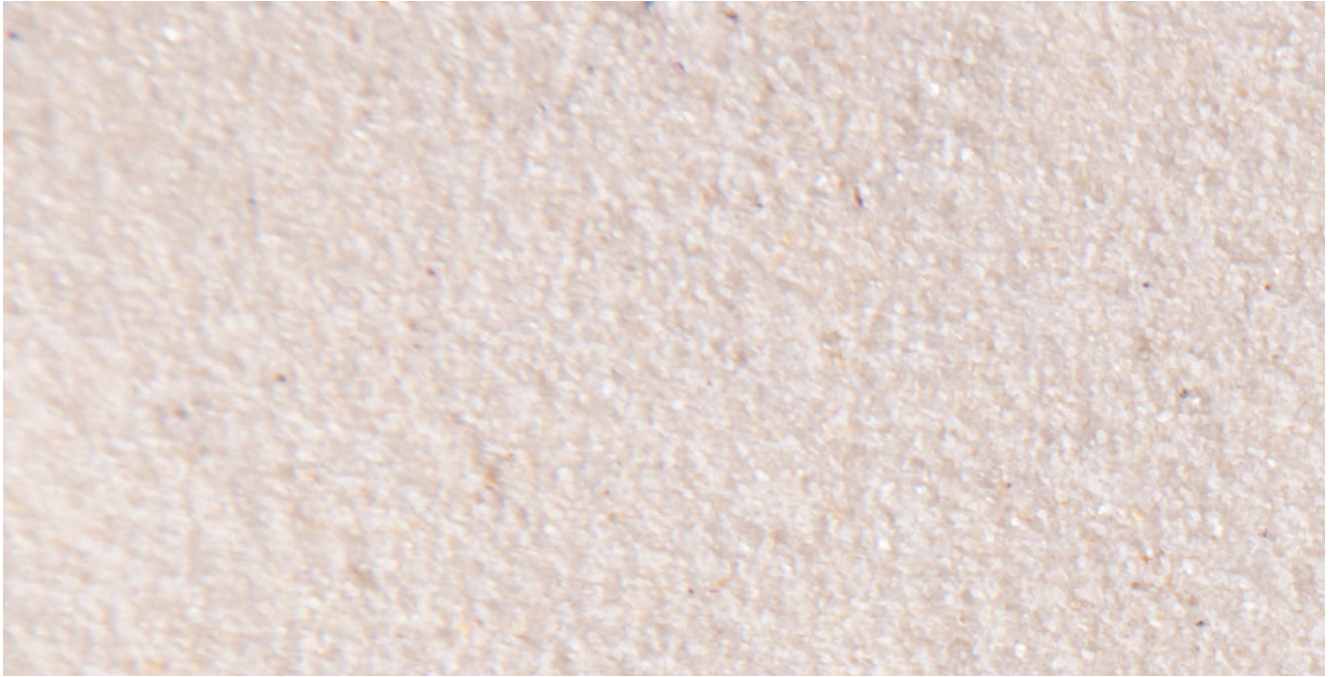


SODIUM FELDSPAR



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KÇ VE DİŞ TİCARET LTD. ŞTİ.

Feldspar are the most common mineral group found on the earth's crust ,constituting approximately 60 percent of it;nearly 90 percent of magmatic an metamorphic rock and 10 percent of sedimentart rocks are feldspars.The group is divided into alkali feldspars and plagioclases according to isomorphpic mix and formational characteristics



CHEMICAL ANALYSIS

SiO ₂	%	70,00 ± 2,00
Al ₂ O ₃	%	19,10 ± 0,75
TiO ₂	%	0,20 ± 0,10
Fe ₂ O ₃	%	0,070 max.
CaO	%	0,60 ± 0,15
MgO	%	0,07 ± 0,07
Na ₂ O	%	10,60 ± 0,50
K ₂ O	%	0,17 ± 0,05
P ₂ O ₅	%	0,16 ± 0,06
K ₂ K ₂	%	0,25 ± 0,15

• No chromite content

PHYSICAL PROPERTIES (%)

+ 500 μ	2,0 max.
+ 300 μ	20,0 ± 5,00
- 74 μ	8,0 ± 3,00
Moisture	0,50 max.

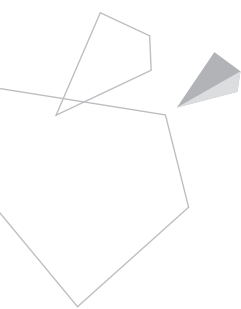
Location and Consignment

Consignment	Big Bag
Plant Location	Aydın - Çine





Talc or Talcum is a clay minerals composed of hydrated magnesium silicate. Tecnodieci mining adds new products to its portfolio to compensate the need of very fine and white Talc for: Paper, rubber, plastic, ceramic, paint and food industry, tecnodieci produce on many different quality any particle size and different whiteness.



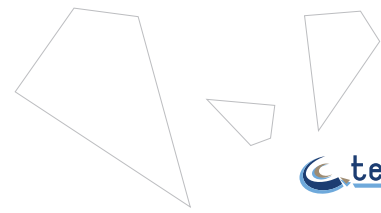
Malvern Mastersizer 2000			
d 50	d 97	<2188	d 100
10,1	32,49	5,59	52,481

DataColor Elrepho			
Ry	L*	a*	b*
92,77	97,13	-0,19	0,82

DataColor Elrepho										
CaO	Al ₂ O ₃	Fe ₂ O ₃	SiO ₂	MgO	MnO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	L.O.i
1,482	1,497	0,5389	51,74	28,63	0,0376	<0,11	0,0031	0,0366	0,1502	12,75



OLIVINE



The mineral Olivine is a magnesium iron silicate with the formula $(Mg_2+Fe_2) 2SiO_4$. Thus it is a common mineral in Earth's subsurface but weathers quickly on the surface

Olivine can be used in; Refractory, steel industry and acting as a plug, removed in each steel run.



REFRACTORY APP. SAND	
Product Size	
0-1 mm.	
1-2 mm.	
1-3 mm.	



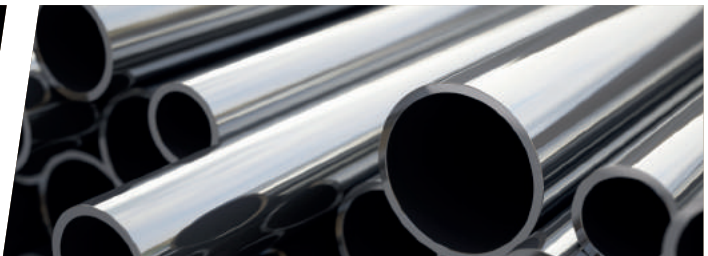
TDK SAND	
Product Size	
0-1 mm.	
1-3 mm.	



EBD SAND	
Product Size	
1-5 mm.	
2-6 mm.	
2-8 mm.	
3-8 mm.	
4-8 mm.	

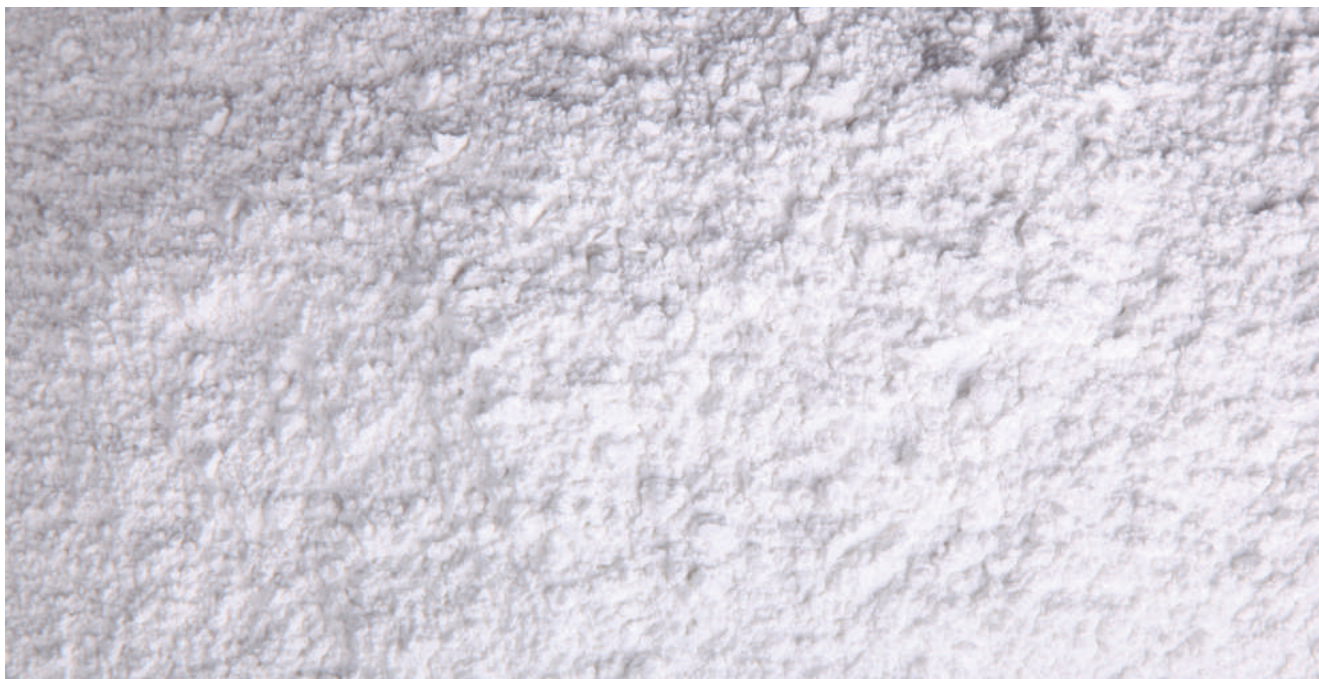
TECNICAL DATA

MgO	%	47-50
SiO ₂	%	38-41
Fe ₂ O ₃	%	7-9
CaO	%	0,2-0,8
AL ₂ O ₃ +TiO ₂	%	1,8-2,0
L.O.I	%	max. 1,5



MICRONIZED CALCITE

Calcium Carbonate is having a wide field which is used in many areas of our lives, as a filler. Inorganic mineral calcite, a plurality of different sectors of production cost of filler that optimizes the most important, micronized Calcite sectoral using: paint & coating, paper, plastic, film, cable, pipe, textile, food, detergent, medicine ext.



CHEMICAL ANALYSIS

K.Z.	%	42,60
SiO ₂	%	0,30
Al ₂ O ₃	%	0,42
Fe ₂ O ₃	%	0,08
TiO ₂	%	-
CaO	%	56,11
MgO	%	0,18
Na ₂ O	%	-
K ₂ O	%	-

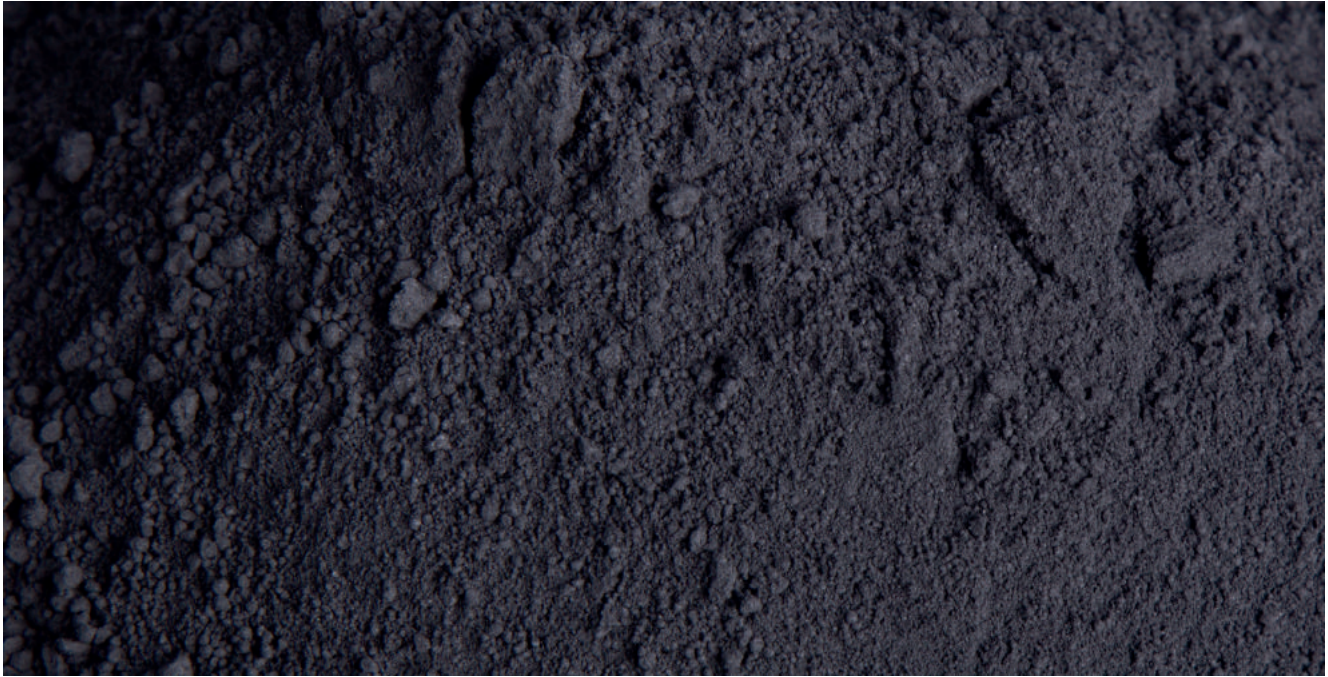


MANGANESE OXIDE (MnO₂)



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İÇ VE DIŞ TİCARET LTD. ŞTİ.

Our products are used in: such as in battery production, water treatment, animal feed premixes, ceramic frits, colored bricks, tile products and Manganese -based chemicals in particular.



CHEMICAL COMPOSITION

MnO ₂	79,00 - 82,00%	(ISO 312-1986)
Mn	min. 53,00& max.	(ISO 12677)
Fe	1,50%	
SiO ₂	max. 11,00%	(ISO 12677)
Moisture	max. 1%	(ISO 787-2)

PHYSICAL CHARACTERISTICS

Specific Gravity	4,4 - 4,6 gr/cm ³	(ISO 787-10)
Bulk Density	1,7 gr/ml	(ISO 787-11)
Particule Size	d50 = 10 microns max. >45 microns %3max	(ISO 787-1)
Color	Black - Dark brown	
Odor	Odorless	
Shape	Powder	



other RAW MATERIALS

Aluminium Oxide
Kaolin
Quartz
Dolomite
Barite
Barium Carbonate
Wollastonite
White Corundum
Copper Oxide
Titanium Dioxide
Potassium Feldspar
Sand
Sepiolite
Perlite
Pyrophyllite
Precipitated Calcium Carbonate (PCC)



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