



Boric Acid

Granular - (Normal Sulphate)

Serving Humanity with THE BOUNTIES OF NATURE

Knowing our responsibility as being the leader of the world's boron market, we grow by manufacturing products in our chemical plants for advanced applications, from glass to textile, from agriculture to industrials.





Boric Acid



CAS Number :10043-35-3

Granular - (Normal Sulphate)

Chemical and Physical Specifications

Specific Weight	1.51 g/cm ³ (20°C)
Bulk Density	0.928 g/cm ³
Molecular Weight	61.83 g/mol
Melting Point	450°C
Boiling Point	1860°C

Chemical Specification

Purity	%	99.92 - 101.07
B ₂ O ₃	%	56.25 - 56.90
SO ₄	ppm	300 max
Cl	ppm	5 max
Fe	ppm	5 max

Physical Specification

+1.000mm	%4.00 max
-0.063mm	%4.00 max



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Boric Acid

Granular-(Low Sulphate)

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Boric Acid



CAS Number :10043-35-3

Granular-(Low Sulphate)

Chemical and Physical Specifications

Specific Weight	1.51 g/cm ³ (20°C)
Bulk Density	0.928 g/cm ³
Molecular Weight	61.83 g/mol 450°
Melting Point	C
Boiling Point	1860°C

Chemical Specification

Purity	%	99.92 - 101.07
B ₂ O ₃	%	56.25 - 56.90 min
SO ₄	ppm	130 max
Cl	ppm	5 max
Fe	ppm	5 max

Physical Specification

+1.000mm	%4.00 max
-0.063mm	%4.00 max



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Boric Acid

Granular -(Ultra Low Sulphate)

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Boric Acid



CAS Number :10043-35-3

Granular -(Ultra Low Sulphate)

Chemical and Physical Specifications

Specific Weight	1.51 g/cm ³ (20°C)
Bulk Density	0.928 g/cm ³
Molecular Weight	61.83 g/mol 450°
Melting Point	C
Boiling Point	1860°C

Chemical Specification

Purity	%	99.92 - 101.07
B ₂ O ₃	%	56.25 - 56.90
SO ₄	ppm	12 max
Cl	ppm	4 max
Fe	ppm	4 max

Physical Specification

+1.000mm	%4.00 max
-0.063mm	%4.00 max



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Boric Acid

Powder

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Boric Acid



CAS Number :10043-35-3

Powder

Chemical and Physical Specifications

Specific Weight	1.51 g/cm ³ (20°C)
Bulk Density	0.750 g/cm ³
Molecular Weight	61.83 g/mol 450°
Melting Point	C
Boiling Point	1860°C

Chemical Specification

Purity	%	99.92 - 100.89
B ₂ O ₃	%	56.25 - 56.80
SO ₄	ppm	300 max
Cl	ppm	5 max
Fe	ppm	5 max

Physical Specification

+1.000mm	%0.00 max
-0.125mm	%45.00 min



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Boron Oxide

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Boron Oxide



CAS Number : 1303-86-2

Porous

Chemical and Physical Specifications

Specific Weight	1.84g/cm ³ (20°C)
Molecular Weight	69.62g/mol
Melting Point	450-465°C
Boiling Point	>1500°C

Chemical Specification

B ₂ O ₃	%	98.00 min
SO ₄	ppm	500 max
Cl	ppm	10 max
Fe	ppm	15 max

Physical Specification

+0.315mm / %75.00 min



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Etibor-48

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Etibor-48

$\text{Na}_2\text{B}_4\text{O}_7 \cdot 5\text{H}_2\text{O}$ – Borax Pentahydrate

CAS Number: 12179-04-3

Granular

Chemical and Physical Specifications

Specific Weight	1.81 g/cm ³ (20°C)
Molecular Weight	291.35 g/mol
Melting Point	741°C
Boiling Point	1575°C

Chemical Specification

B_2O_3	%	48.00 - 49.35
Na_2O	%	21.37 - 21.95
SO_4	ppm	135 max
Cl	ppm	70 max
Fe	ppm	3 max
Water-insolubles	ppm	150 max

Physical Specification

+1.180mm	%4.00 max
-0.075mm	%5.00 max



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Etibor-68

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Etibor-68

$\text{Na}_2\text{B}_4\text{O}_7$ – Anhydrous Borax

CAS Number : 1330-43-4



Chemical and Physical Specifications

Specific Weight	2.37 g/cm ³ (20°C)
Molecular Weight	201.22 g/mol
Melting Point	741°C
Boiling Point	1575°C

Chemical Specification

B_2O_3	%	68.00 min
Na_2O	%	30.27 min.
SO_4	ppm	300 max
Cl	ppm	105 max
Fe	ppm	50 max
Water-insolubles	ppm	920 max

Physical Specification

+1.600mm	%5.00 max
-0.075mm	%5.00 max



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Borax
Decahydrate Powder

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Borax Decahydrate

$\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$

CAS Number :1303-96-4

Powder

Chemical and Physical Specifications

Specific Weight	1,72 g/cm ³ (20°C)
Bulk Density	0,882 g/cm ³
Molecular Weight	381,37 g/mol
Melting Point	741°C
Boiling Point	1575°C

Chemical Specification

Purity	%	99.90 min
B ₂ O ₃	%	36.47 min
Na ₂ O	%	16.24 min
SO ₄	ppm	200 max
Cl	ppm	70 max
Fe	ppm	15 max

Physical Specification

+1.180 mm	%0.00 max
-0.063 mm	%30.00 min



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Borax
Decahydrate Granular

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Borax Decahydrate

$\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$

CAS Number: 1303-96-4

Granular

Chemical and Physical Specifications

Specific Weight	1.71 g/cm ³ (20°C)
Bulk Density	0.835 g/cm ³
Molecular Weight	381.37 g/mol
Melting Point	741°C
Boiling Point	1575°C

Chemical Specification

Purity	%	99.90 min
B ₂ O ₃	%	36.47 min
Na ₂ O	%	16.24 min
SO ₄	ppm	135 max
Cl	ppm	70 max
Fe	ppm	10 max

Physical Specification

+1.180 mm	%4.00 max
-0.063 mm	%4.00 max



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Ground Colemanite

-45 Micron

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Ground Colemanite



CAS Number: 1318 - 33 - 8

-45 Micron

Chemical and Physical Specifications

Molecular Weight
Melting Point

411.08 g/mol
986°C

Chemical Specification

B ₂ O ₃	%	40.00±0.50
CaO	%	27.00±1.00
SiO ₂	%	4.00-6.50
SO ₄	%	0.60 max
As	ppm	35 max
Fe ₂ O ₃	%	0.08 max
Al ₂ O ₃	%	0.40 max
MgO	%	3.00 max
SrO	%	1.50 max
Na ₂ O	%	0.50 max
Loss on Ignition	%	25.00 max
Moisture	%	1.00 max
Bulk Density	ton/m ³	1.00 max

Physical Specification

+150 µm	%0.25 max
-45 µm	%75.00 min



ETİMADEN
İŞLETMELERİ GENEL MÜDÜRLÜĞÜ



Ground Colemanite

-75 Micron

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Ground Colemanite



CAS Number:1318 - 33 - 8

-75 Micron

Chemical and Physical Specifications

Molecular Weight
Melting Point

411.08 g/mol
986°C

Chemical Specification

B ₂ O ₃	%	40.00±0.50
CaO	%	27.00±1.00
SiO ₂	%	4.00-6.50
SO ₄	%	0.60 max
As	ppm	35 max
Fe ₂ O ₃	%	0.08 max
Al ₂ O ₃	%	0.40 max
MgO	%	3.00 max
SrO	%	1.50 max
Na ₂ O	%	0.50 max
Loss on Ignition	%	25.00 max
Moisture	%	1.00 max
Bulk Density	ton/m ³	1.00 max

Physical Specification

+150 µm	%0.50 max
-75 µm	%82.00 min



ETİMADEN
İŞLETMELERİ GENEL MÜDÜRLÜĞÜ



Ground Ulexite

-45 Micron

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Ground Ulexite

$\text{Na}_2\text{O} \cdot 2\text{CaO} \cdot 5\text{B}_2\text{O}_3 \cdot 16\text{H}_2\text{O}$

CAS Number:1319-33-1

-45 Micron

Chemical and Physical Specifications

Molecular Weight
Melting Point

405.21 g/mol
870 °C

Chemical Specification

B_2O_3	%	37.00±1.00
CaO	%	19.00 max
SiO_2	%	4.00 max
SO_4	%	0.25 max
As	ppm	40 max
Fe_2O_3	%	0.04 max
Al_2O_3	%	0.25 max
MgO	%	2.50 max
SrO	%	1.00 max
Na_2O	%	3.50 max
Moisture	%	1.00 max
Bulk Density	ton/m ³	1.00 max

Physical Specification

+150 µm	%0.25 max
-45 µm	%75.00 min



ETİMADEN
İŞLETMELERİ GENEL MÜDÜRLÜĞÜ



Ground Ulexite

-75 Micron

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Ground Ulexite

$\text{Na}_2\text{O} \cdot 2\text{CaO} \cdot 5\text{B}_2\text{O}_3 \cdot 16\text{H}_2\text{O}$

CAS Number:1319-33-1

-75 Micron

Chemical and Physical Specifications

Molecular Weight
Melting Point

405.21 g/mol
870 °C

Chemical Specification

B_2O_3	%	37.00±1.00
CaO	%	19.00 max
SiO_2	%	4.00 max
SO_4	%	0.25 max
As	ppm	40 max
Fe_2O_3	%	0.04 max
Al_2O_3	%	0.25 max
MgO	%	2.50 max
SrO	%	1.00 max
Na_2O	%	3.50 max
Moisture	%	1.00 max
Bulk Density	ton/m ³	1.00 max

Physical Specification

+150 µm	%0.50 max
-75 µm	%82.00 min



ETİ MADEN
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ETİCOL-CERAMIC

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ETİCOL-CERAMIC

CAS Number:1318 - 33 - 8



Chemical and Physical Specifications

Chemical Specification

B ₂ O ₃	%	42.00±1.00
CaO	%	23.00-26.00
SiO ₂	%	3.00-7.00
SO ₄	%	0.80 max
Fe ₂ O ₃	%	0.12-0.30
Al ₂ O ₃	%	0.40-0.80
MgO	%	1.50-3.00
Moisture	%	1.00 max

Physical Specification

-75 µm 82.00% min



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Etidot-67

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Etidot-67

$\text{Na}_2\text{B}_8\text{O}_{13}\cdot 4\text{H}_2\text{O}$ - Disodium Octaborate Tetrahydrate
CAS Number:12280-03-4

Chemical and Physical Specifications

Specific Weight	2.26 g/cm ³
Bulk Density	300-500 kg/m ³
Molecular Weight	412.52 g/mol
Melting Point	815°C

Chemical Specification

Purity	%	99.25 min
B ₂ O ₃	%	67.00 min
Na ₂ O	%	14.00 min

Physical Specification

-0.090mm	% 50.00 min
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İŞLETMELERİ GENEL MÜDÜRLÜĞÜ