



ArvinTajhiz

Chemical Supplying




www.soda-ats.com

Catalog Code: AC001-V2

CAUSTIC SODA FLAKES

Caustic soda (Sodium hydroxide) is a white, odorless, and solid inorganic compound chemical. It is non-volatile and has high corrosive properties, which easily absorbs air moisture. It is one of the most applicable industrial chemicals. Its water solution has numerous applications in different industries because of its highly caustic base and alkalescence. Sodium hydroxide, with the formula NaOH, also known as lye and caustic soda, is a popular strong caustic base.

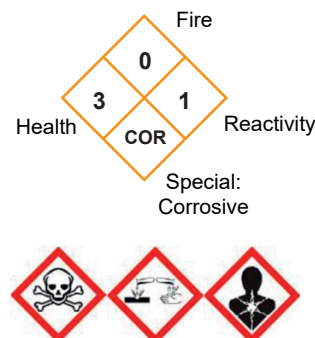
Item	Characteristic	Unit	Value	Desc.	Chemical Formula	NaOH
1	Physical State	-	Solid	-	CAS #	1310-73-2
2	Molecular Weight	g/mol	40	-	UN #	1823
3	Appearance	-	White flakes	-		
4	Vapor Pressure	mmHg	1	739 °C @		
5	Odor	-	Odorless	-		
6	PH	-	14	@ 5% aq soln		
7	Boiling Point	°C	1390	@ 760 mmHg		
8	Freezing/Melting Point	°C	318	-		
9	Solubility in water	g/l	420	@ 20 °C		
10	Density	g/cm ³	2.13	-		

Item	Properties	Test Method	Value	Limit
1	NaOH	ASTM D-3875	%W	99%
2	NaCl	ASTM D-3875	%W	Max 0.01
3	Na ₂ CO ₃	ASTM D-3875	%W	Max 0.04
4	Fe	ASTM D-3875	PPM	Max 30
5	Na ₂ SO ₄	ASTM D-516	%W	Max 0.01
6	SiO ₂	ASTM D-859	%W	Max 0.02
7	Al ₂ O ₃	ASTM D-3875	PPM	Max 20

HAZARD IDENTIFICATION

Danger! Causes eye and skin burns. Causes digestive and respiratory tract burns. Hygroscopic (absorbs moisture from the air).

- EXTREMELY CORROSIVE
- Fatal if inhaled.
- Avoid to swallowed.
- Causes severe skin burns and eye damage.
- Can cause blindness, permanent scarring and death.
- Toxic if swallowed and in contact with skin
- Suspected of damaging the unborn child.
- Suspected of causing genetic defects.
- May cause damage to cardiovascular, respiratory, nervous, and gastrointestinal systems and liver and blood through prolonged or repeated exposure.
- Harmful to aquatic life.



PACKAGING, TRANSPORT & SAFE HANDLING

Caustic soda flake is packed in different ways, but a crucial issue to be considered is transporting and storing. If the packing of the sodium hydroxide flake has low quality, the moisture of weather will penetrate into the packing so the caustic soda flakes will stick together and turn into lump mode and the quality of the sodium hydroxide flake will reduce and will not be useable after a while.

Sodium hydroxide flake packing must be made of 2-ply laminated polypropylene bags sealed completely with strong polyester yarn. If using normal yarn for sealing the bags, after a little time sodium hydroxide flake will solve the yarn. The best packing of caustic soda flake would be 25 kg PP bags for keeping away from damage. When transporting, it is better to put 25 kg bags in jumbo bags.

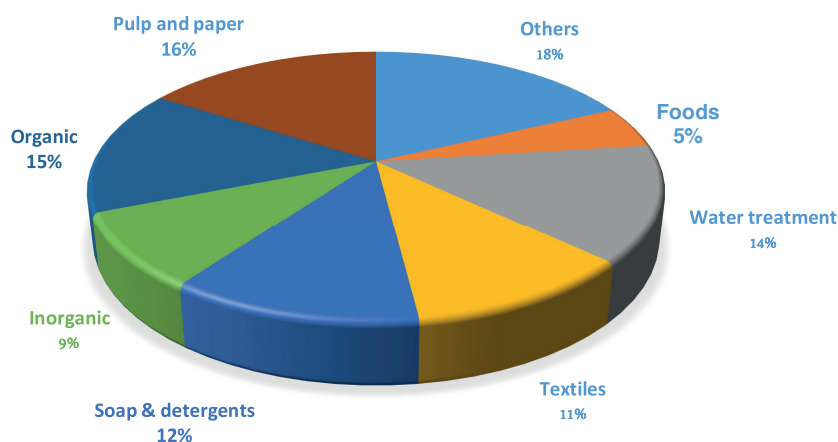
- Jumbo Bags (each has the weight of 1 MT)
- PP/PE Bags (each has the weight of 25 Kg)
- PE Drums (each has the weight of 5 Kg)



APPLICATIONS

Caustic soda flake, or sodium hydroxide, is mostly used in industry and chemical manufacturing companies. Below are some industries this product is widely consumed:

- Pulp & Paper
- Refineries Alumina
- Plastic wrap
- Soaps and cleaners
- Detergent
- Textile processing
- Oil refining
- Water treatment
- Metal processing



We export caustic soda flakes to multiple destinations all over the world, such as Middle east, African and Europe countries, by the best quality and the most competitive price.



ArvinTajhiz

Petrochemical Supplying

Isfahan Office: No.6, Hafez e
esfahani(16) St., Dolat Abad,
Industrial Zone, Isfahan, Iran
Sales: (+9831) 33380050
Factory: (+9831) 35837860
Fax: (+9831) 33360406

Catalog Code: AC001-V2