

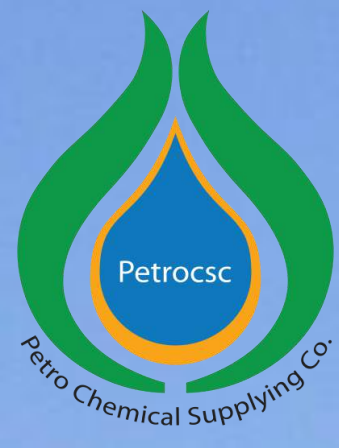


P e t r o C h e m i c a l

S u p p l y i n g

C o m p a n y

P e t r o C S C



- **Chemicals**
- **Petrochemicals**
- **Drilling Raw Materials**
- **Detergent Industries**
- **Power Plants**
- **Oil & Gas**
- **Foods Industry**

We shall always aim to develop and facilitate procedures and policies that shall help us grow and help our partners in the supply chain. We believe in the policy of transparency and work relationship- based on trust and mutual benefit.

Dr.M.Damghanian
Chairman



We are one of The biggest Chlor Alkali Manufacture in Iran

Our plant basis is in Mahshar and our capacity to produce Caustic Soda Flake 99% is 3500MT per month .

Petro CSC is exporting just 1300MT of this capacity to South Africa and extra part is exporting to more than 5 countries .

We are producing Caustic Soda Liquid 48%~50% too , we are exporting this material and use as raw material to produce Caustic Soda Flake 99% too .

Next production basis on Caustic raw material is Sodium Hypochlorite 15%~16% , it has different packing such as 220 liter drums IBC , felaxi and bulk packing

Our next plants basis in Shiraz and Isfahan that produce sodium Bicarbonate , that's food grade and export to Russia and Armenia and MEG , TEG and DEG to export to Turkmenistan and Russia .

For your information all machineries installed are from the best European factories by international standers , this item help us to increase productions quality .



Petro CSC

Vision & Mission

Our Value :

- We are a global family that values diversity.
- We always do the right thing. With precision, pace and passion.
- We trust each other and have fun winning together.
- We own and shape our future.



Our Vision

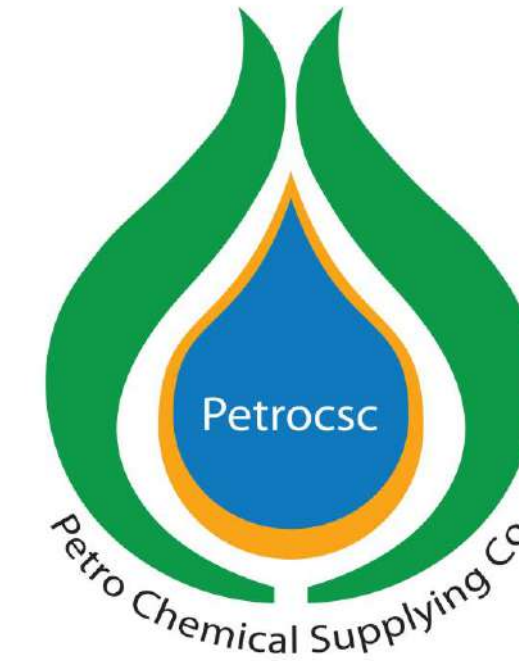
- ✓ We seek a world of hope, inclusion, and social justice, where poverty has been overcome and all people live with dignity and security.

Our Mission

- ✓ Care , works around the globe to save lives, defeat poverty, and achieve social justice.

Part of our Productions:

Here you can find part of our productions we produce in Mahshahr , Shiraz and Mashhad .



- | | |
|--------------------------------|-------------------|
| ✔ Sodium Hypochlorite 15% | 1000 MT Per Month |
| ✔ Ammonium Sulfate | 3000 MT Per Month |
| ✔ Caustic Soda Flake 99% | 3500 MT Per Month |
| ✔ Caustic Soda Liquid 50% | 5000 MT Per Month |
| ✔ Sodium Bicarbonate | 2500 MT Per Month |
| ✔ TEG (Tri-Ethylene Glycol) | 200 MT Per Month |
| ✔ MEG (mono-Ethylene Glycol) | 600 MT Per Month |
| ✔ DEG (Di-Ethylene Glycol) | 300 MT Per Month |





Upstream Sector Companies List

- ✓ www.barsavasepehrpart.com
- ✓ www.petrodmo.com
- ✓ www.petrogroupco.com
- ✓ www.petroscs.com



Why Petro CSC

Petro CSC provide too many services for all customers to cover their needs and orders :

- ✓ **In-Market Advisers**
- ✓ **Technology Advisers**
- ✓ **Development Advisers**
- ✓ **Investment Advisers**
- ✓ **Free Sampling**
- ✓ **Provide customer Brand Packing**



Some of Petro CSC outside Activities

Petro CSC has some cooperation in some others activities in other industrials field such as :

- ✓ **Bais oil**
- ✓ **O il R efining**
- ✓ **S u p p l y a n d T r a d i n g**
- ✓ **P r o d u c t M a r k e t i n g**
- ✓ **W h o l e s a l e a n d R e t a i l**





The Petro CSC R&D Team is comprised of industry and technical experts working in our Technical Centers around the globe. We pride ourselves on having a diverse team of experts, dedicated to their work and offering a broad range of industry expertise. Our research and development philosophy requires partnering between technical R&D, sales, marketing, manufacturing, process engineers and the customers that drive our product performance requirements. That is why we align our business and our technical experts by the end markets and consumers that we serve. Backed by our strength in mechanical, design, material process and chemical engineering, we are focused on driving growth for our customers.

- ✓ **New Product Development**
- ✓ **Process and Value Engineering**
- ✓ **Strategic Customer Partnerships**

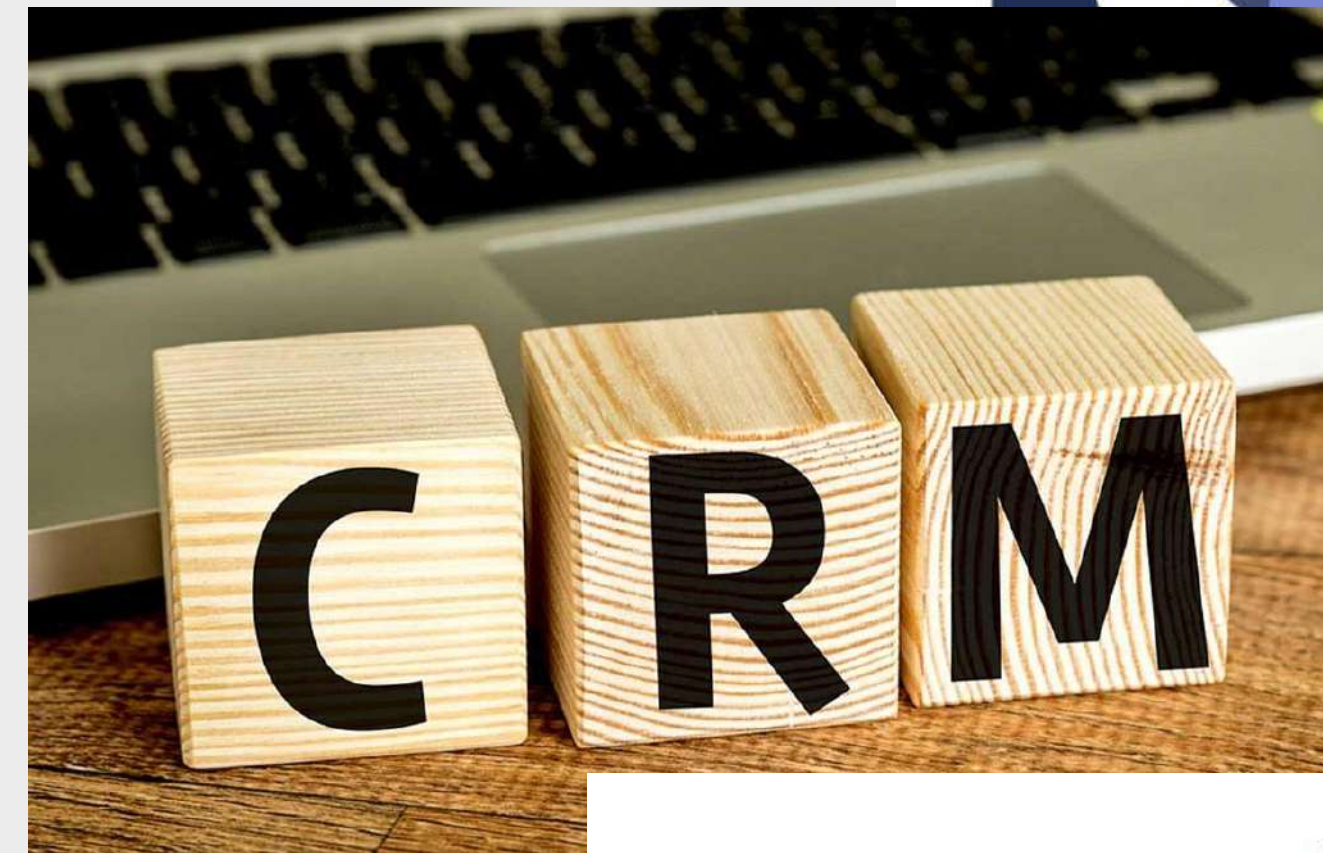




Our CRM Team

Customer Relationship Management

Our Customer Relationship Management (CRM) team plays an important role in deepening, strengthening, and maintaining the longstanding relationships we've built with our customers. Predominantly based at our headquarters in Tehran, with supporting teams across the regions, they provide us with the necessary insight and analysis to define our marketing strategy and, importantly, better serve our customers. This may be obtained quantitatively through surveys and seasonal statistics, or more qualitatively through wider trends in the industry. We aim to surprise and delight our customers. And it is our CRM team who drives the constant improvement of our Customer Journey so that every interaction is connected and seamless.



Our Productions Packing

We have 5 kinds of packing for our productions :

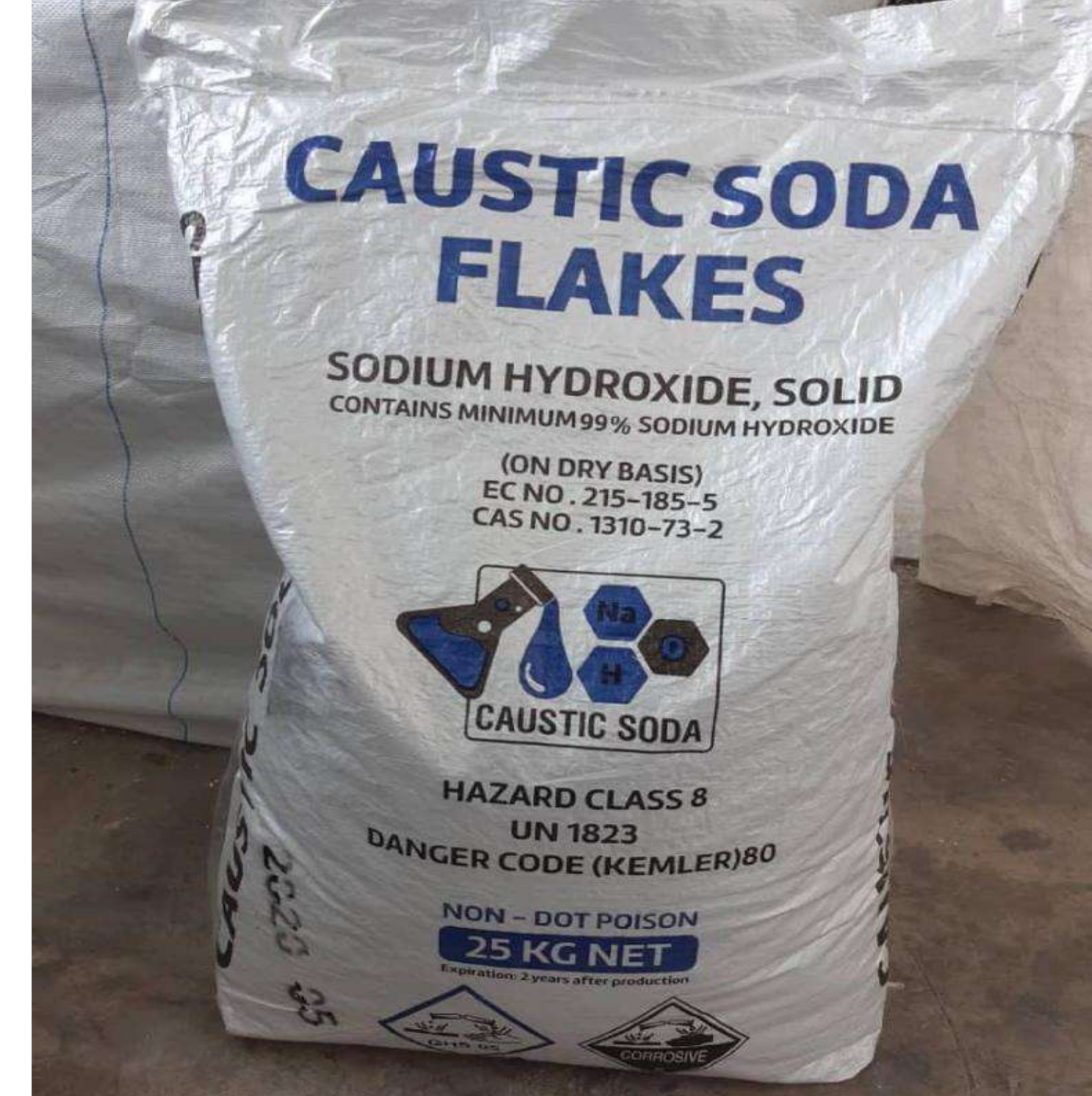
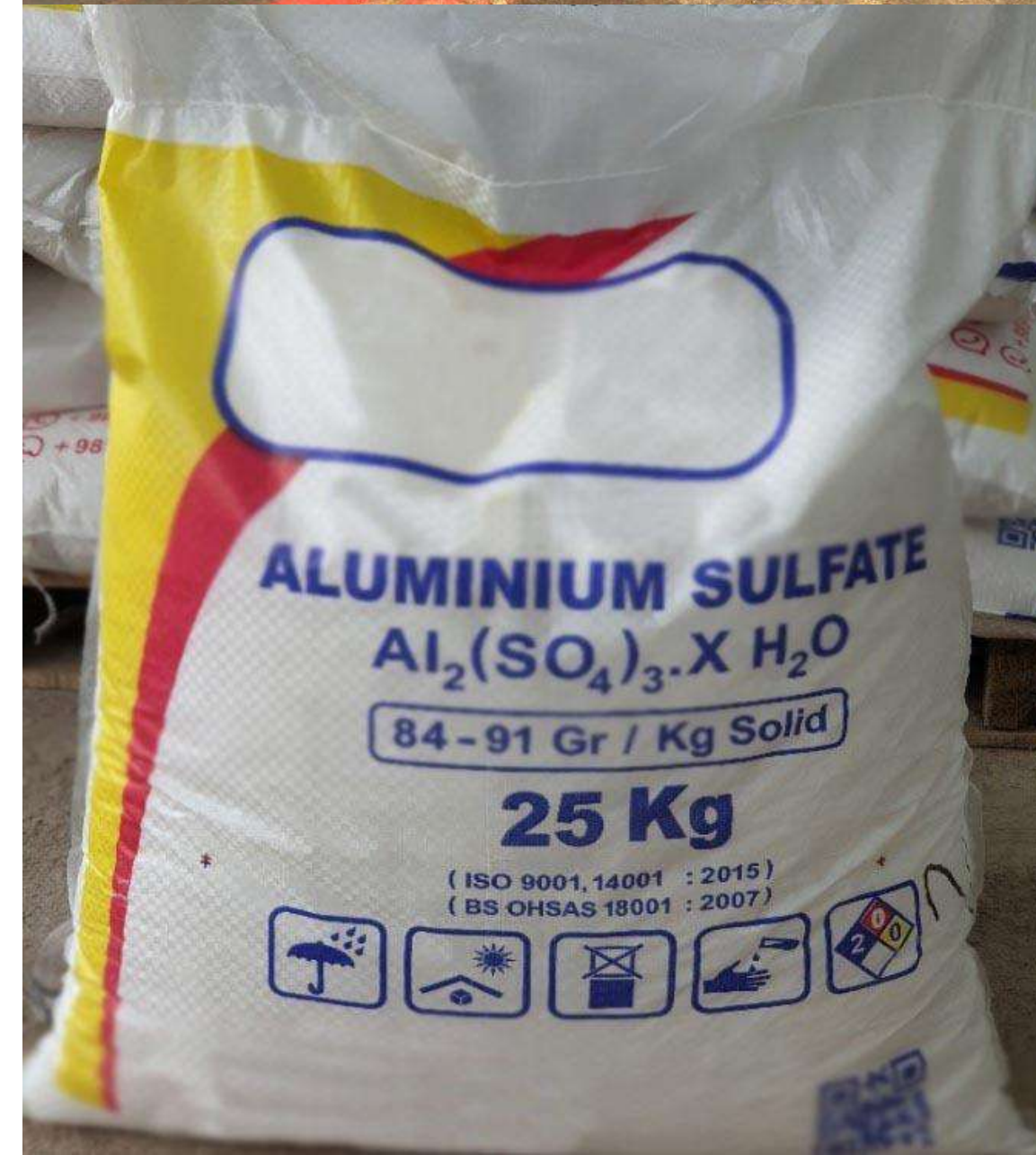
1- 25kg Bags in Jumbo Bags

2- 50kg Bags

3- IBC Drums

4- 220 litter Drums

5- Felaxi



Caustic Soda Flake 99%

We have many experiences to modify the existing Caustic Soda Evaporators, even if the original fabricator is another company. These revamping projects need the high technology to design the Caustic Soda Concentration System. The Caustic Soda Solution has severe corrosive action to the metal at high temperature. Especially, in high temperature zone, we recommend the Nickel for the evaporators.



Use for :

- 1- In oil and gas industry – to remove pungent smells
- 2- In household cleaning products
- 3- In beverage bottles
- 4- In home soap making
- 5- Food preparation
- 6- Cleaning agent
- 7- Water treatment
- 8- Experimental

SGS Proposal-9977974
TEST REPORT No.: 650201/75783
ANALYSIS REPORT

In pursuance to an order received from:

To carry out instructions summarized as:
ANALYSIS ON SAMPLE SUPPLIED

Described as follows:
SUPPLIED SAMPLE : SAID TO BE "CAUSTIC SODA"
WEIGHT OF THE SAMPLE : ABOUT 1,000 GRAMS
DELIVERED BY : PETRO CHEMICAL SUPPLYING CO.

ANALYSIS REPORT:
 The supplied sample with unknown origin submitted to us in order to send to accredited third party laboratory for requested below analysis items and as per analysis report Ref. No.:

Row	Analysis	Result	Unit	Range
1	Sodium Carbonate(as Na ₂ CO ₃)	0.28	Percent	Max 1
2	Sodium Hydroxide(as NaOH)	99.5	Percent	Min 98
3	Sulphates(as SO ₄)	Less than 0.01	Percent	Max 0.01
4	Nickle	Less than 0.0002	Percent	-
5	Iron(as Fe)	Less than 5	ppm	Max 30
6	Copper(as Cu)	Less than 5	ppm	-
7	Manganese(as Mn)	Less than 2	ppm	-
8	Chlorates and Per-chlorates (as NaClO ₃)	ND	ppm	-
9	Matter insoluble water	0.03	Percent	Max 0.1
10	Total Mercury (as Hg)	Less than 0.2	ppm	Max 0.2
11	Sodium Hydroxide (as NaOH)(on dry basis)	99.3	Percent	-
12	Salt (NaCl)	0.05	Percent	Max 0.06

NOTE:
 The analysis report above refers to the time and place of testing, and strictly to the supplied sample only, without reference to any other matter. This report does not evidence or refer to any consignment or shipment. This is not a certificate of quality and is issued for information only.

Signed and dated in Tehran - IRAN **SGS** For and on behalf of
 03.04.2021 **SGS Iran Limited** SGS (IRAN)
 H. K. No.2
 AFL Division (Agriculture, Food, Life)

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تهران - میدان آزادی، خیابان احمد قاصر، پلاک ۴۷، صندوق پستی: ۱۴۱۵۵-۴۹۹۹ تلفن: ۰۲۱-۸۸۸۳۳۱۷۲-۳ فکس: ۰۲۱-۸۸۸۴۰۷۵۰
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 E: go.info@sgs.com WWW.SGS.COM Member of the SGS Group (SGS SA)

IGI INTERNATIONAL GOODS INSPECTION CO.

Date: _____
 No: 1010263
 Enc: _____

Test Report

Sample Name: Sodium Hydroxide Request No: C/970404/32509
 Producer: Date of Receipt:
 Enviromental Con Temp: 24 °C - Humidity:23% Date of Test:

Raw	Test	Result	Limit	Method
1	Carbonate as Na ₂ CO ₃ (%)	0.46	Max 1	ISIRI 6135
2	water insoluble (%)	<0.01	Max 0.1	ISIRI 7904
3	SiO ₂ (%)	<0.0005	Max 0.02	ISIRI 2531
4	Chloride as NaCl (%)	<0.29	Max 0.06	ISIRI 2535
5	Sulfate (%)	<0.0001	Max 0.01	ISIRI 2539
6	NaOH (%)	99	Min 98	ISIRI 6135
7	Pb (mg/Kg)	<1.0	Max 10	Atomic Absorption Spectroscopy
8	As as As ₂ O ₃ (mg/Kg)	<0.6	Max 2	Atomic Absorption Spectroscopy
9	Hg (mg/Kg)	<0.2	Max 0.2	Atomic Absorption Spectroscopy
10	Fe (mg/Kg)	<2.9	Max 30	Atomic Absorption Spectroscopy
11	Al as Al ₂ O ₃	<5.0	Max 20	Atomic Absorption Spectroscopy

Add : No.334 Motahari Ave.- Tehran-Iran,P.O.Box (15875-3619)Tel:(+9821)88833172-3 Fax :(+9821)88840750
 (Tlx:2247 11 IGI-IR) (e-mail:igi@igico.com) (web site: www.igico.com)



Caustic Soda Liquid 50%

Caustic soda uses electrolysis method which result in pure liquid caustic-soda and free of metal impurities, and are marketed in two types: 30% -33% and 48% -50%; which are according to ISIRI 364 Standard and conventional caustic-Soda of industrial consumer units



Use for :

- 1- Refineries Alumina
- 2- plastic wrap
- 3- Soaps and cleaners
- 4- Detergent
- 5- Textile processing
- 6- Oil refining
- 7- Water treatment
- 8- Metal processing

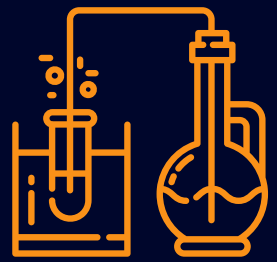
Propertices	units	Test Method	Result
Purity	Wt%	ASTM D-3875	49.5 min
Na ₂ CO ₃	Wt%	ASTM D-3875	0.4 max
NaCl	Wt.ppm	Spectrophotomerty(DENORA)	15 max
Na ₂ SO ₄	Wt.ppm	ASTM D-516/D-4130	15 max
AL ₂ O ₃	Wt.ppm	Standard Method	10 max
Total Fe (As Fe ₂ O ₃)	Wt.ppm	ASTM D-2790	6 max
SiO ₂	Wt.ppm	ASTM D-859-88	5 max
Total Ca (As CaO)	Wt.ppm	ASTM D-511	10 max
Hg	Wt.ppm	Mercury Analysis	0.5 max
Sp.Gr.@(15.6 °C)	--	ASTM D-3875	1.515 min
Appearance	--	Visual	Clear
Na ClO ₃	Wt.ppm	Vogel Analysis	120 max

TYPICAL TEST	UNIT	SPESIFICATION	TEST METHOD
NaOH	WT%	49.5 min	Uhde A59.01.04/2.4.5.02
NaCl	ppm by wt	Max. 100	Uhde A59.02.01/2.4.5.04
Fe	ppm by wt	Max. 3	Uhde A59.09.01/2.4.5.06
Sp.Gr@15.6°C		1.515 Min.	Uhde A59.01.03/2.4.5.03
APPEARANCE		clear	VISUAL
NaClO ₃	ppm by wt	Max. 50	Uhde A59.10.02



Ammonium Sulfate 17%

The chemical compound Aluminum sulfate is primarily used in fertilizers but is important in other industries as well. While it isn't considered highly hazardous to humans Ammonium sulfate, also called ammonium sulfate or sulfuric acid diammonium salt, is a white crystalline solid with no smell. It tastes salty.



Use for :

Aluminum sulfate has many different uses in day-to-day life, as well as being used in several essential industries.

Interesting uses of aluminum-sulfate around the house are in gardening.

Aluminium sulphate 17% Analysis

Analysis sheet

Analiz Date: 2020.07-12	SN:
Sampling Time: 00:00	Product Name : $Al_2(SO_4)_3 \cdot xH_2O$
Analysis Report Date: 2020.07-12	

THE FOLLOWING SPECIFICATION IS MAIN PRODUCT :

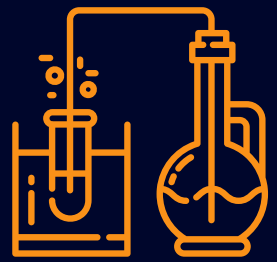
PRODUCTS: $Al_2(SO_4)_3 \cdot xH_2O$

SR	Property	Units	Limit	RESULT	Analiz metodu
1	Al_2O_3	% w/w Min	17	17.06	INSO 3096
2	pH 1 %	% w/v Min	3	3.24	INSO 3096
3	Insoluble	% w/w Max	0.1	0.08	INSO 3096
4	Free H_2SO_4	% w/w Max	0.00	0.00	Turkish
5	Free Al_2O_3	% w/w Max	0.23	0.019	Turkish
6	Fe_2O_3	% w/w Max	0.03	0.026	INSO 3096



MEG (Mono-Ethylene Glycol)

Mono ethylene glycol (MEG), by far the largest volume glycol, is produced by the direct hydration of ethylene oxide (EO). Smaller amounts of DEG and TEG are co-produced in this process, although additional quantities of DEG and TEG can be produced by further reacting MEG with additional EO.



Use for :

Range from clothing and other textiles, through packaging to kitchenware, engine coolants and antifreeze. Polyester and fleece fabrics, upholstery, carpets and pillows, as well as light and sturdy polyethylene terephthalate drink and food containers originate from ethylene glycol.

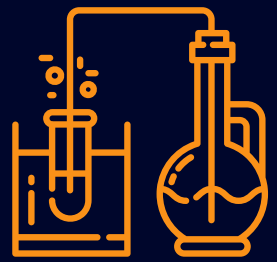
Mono Ethylene Glycol(MEG)

result	normal	specification	NO
1.11	1.11-1.05	SP.GR@15°C	1
99.1	98	MEG CONTENTmax	2
7	5-10	Color(pt-co)	3
0.2	0.5	Water content MAX	4
0.5	1	DEGcontent MAX	5
0	0	Solid	6
0	0	SUSPENDEN- MATERIAL	7
185	180 MIN	I.B.P	8
194	194 MIN	5%	9
196	196 MIN	20%	10
198	196 MIN	95%	11
200	210 MAX	D.B.P	12



DEG (Di Ethylene glycol)

Di Ethylene glycol (DEG) has many uses, including as antifreeze in cooling and heating systems, in hydraulic brake fluids, and as a solvent. Acute (short-term) exposure of humans to Ethylene glycol by ingesting large quantities causes three stages of health effects: central nervous system (CNS) depression, followed by cardiopulmonary effects, and later renal damage. The only effects noted in one study of individuals exposed to low levels of Ethylene glycol by inhalation for about a month were throat and upper respiratory tract irritation.



Use for :

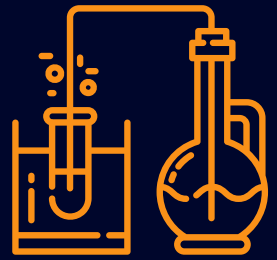
Ethylene glycol is used as antifreeze in cooling and heating systems, in hydraulic brake fluids, as an industrial humectant, as an ingredient of electrolytic condensers, as a solvent in the paint and plastics industries, in the formulations of printers' inks, stamp pad inks, and inks for ballpoint pens.

DEG SPECIFICATION			
result	normal	specification	ردیف
1.125	1.1175-1.1395	SP.GR@15*c	1
20	15-30	UV.Trans at350nm	2
70	50-70	ColorA.P.H.A	3
0.2	0.5	Water content MAX	4
0	0	Solid	5
0.5	1	MEG%max	6
0.5	1	TEG%max	7
0	0	SUSPENDEN- MATERIAL	8
240	220 MIN	I.B.P	9
242	230MIN	5%	10
245	242MIN	25%	11
250	250 MAX	95%	
255	253MIN	D.B.P	12
98.8	97.0	PURITY MIN DEG	13



TEG (Tri Ethylene Glycol) :

Triethylene Glycol (TEG) is a liquid chemical compound with the molecular formula $C_6H_{14}O_4$ or $HOCH_2CH_2CH_2O_2CH_2OH$. Its CAS is 112-27-6. TEG is recognized for its hygroscopic quality and ability to dehumidify fluids. It is miscible with water and soluble in ethanol, acetone, acetic acid, glycerine, pyridine, and aldehydes. It is slightly soluble in diethyl ether, and insoluble in oil, fat, and most hydrocarbons..



Use for :

- 1- Antifreeze
- 2- Coolants
- 3- Chemical intermediates
- 4- Gas dehydration and treating
- 5- Heat transfer fluids
- 6- Polyester resins
- 7- Solvents

CERTIFICATE OF QUALITY

Sample of: Tri Ethylene Glycol (TEG)
Source: Shore tank no. 8030B

The below items were tested at Morvarid Petrochemical Co. laboratory and witnessed by us:

<u>Test</u>	<u>Unit</u>	<u>Method</u>	<u>Results</u>
Tri Ethylene Glycol Purity (TEG) [100-Impurities]	Wt.%	100-Impurities	99.8
Sum (DEG & T.TEG)	Wt.%	SMS-2886	0.14+0.04
Water Content	Wt.%	ASTM E-1064	0.02
Color (Pt-Co)	Pt-Co	ASTM D-1209	11
Specific Gravity @ 20/20 °C	-	ASTM D-4052	1.126
Distillation Range (5% Vol)	°C	ASTM D1078	284.6
Distillation Range (95% Vol)	°C	ASTM D1078	288.2
Ash	mg/kg	ASTM D-482	13
Appearance	-	ASTM D-4176	C.C.L.

When we witness analysis, our responsibility is solely to ensure that the analysis is conducted to standard test methods in accordance with industry accepted practice. We are not responsible for apparatus, instrumentation and measuring devices, their calibration or working order. Reagents and solutions are accepted as prepared.

This Certificate shall not be reproduced in full or in part without the written approval of Keyhan Sanjesh Azma.



Some of Petro CSC Export Destinations



The Petro CSC has ability to deliver all customers request in their final destination . We are exporting all materials to almost all neighbors by road with trucks such as Turkey , Turkmenistan , Iraq , Armenia , Georgia and

and according to the long distance of some destination we transfer the orders by ship and as we have direct shipping line we can offer so competitive price to customers .Some of our sea transferring destinations are : Jebel Ali port , Dar Es Salaam port , Astrakhan port , Mundra port and

For both ways Petro CSC team arranges all activities start to the end and customer will just receive their orders in final destination with so competitive price , this is reason we could develop our customers quantity and market all around the world .

Petro CSC target is supplying customers orders with the best price , in the fastest period time and with high quality .

Our CRM team is much more important department in Petro CSC because customers are our Companies suporter and its so important to keep them satisfied .







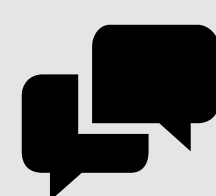
Contact Us

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+989125325443

You can have a direct connection with our departments



BY PHONE

Saturday to Wednesday
(9am to 6pm)



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orders or anything you need
then we will help you reach
what you need.



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