

# FERGANA CHEMICAL PLANT





**GDP:** 171,369 billion UZS (2015)

## REGION

The Republic of Uzbekistan ARAL SEA is located in Central Asia. Z = A = KThe capital is Tashkent. Official language is Uzbek. USTYURT PLATEAU Takhtakŭpir KYZ TURAN Khujayli d LOWLAND Chirchig Urgench Chust Namangan Oarsh Population: 31 575 300 (01.01.2016) Denow) Total area: 448,9 thousand sq.km **Currency:** Uzbekistan som (UZS) AFGHANISTAN



#### ABOUT COMPANY

- > The Fergana chemical plant of furan compounds (nowadays is Fergana Chemical Plant) was created in 1946.
- The department for the production of tetrahydrofurfuryl alcohol was build and commissioned in 1965
- > The production line of cotton cellulose under European standards was launched in 2002 with financial support of German investors.





#### ABOUT COMPANY

- > "Fargona Kimyo Zavodi" Ltd. was created in 2012 on the basis of the Fergana chemical plant of furan compounds.
- > The plant is one of the largest manufacture of cotton cellulose in Central Aisa and in CIS region.





#### ABOUT COMPANY



- > Number of staff: more than 624 employees.
- > Plant area: 26,09ha.
- > Territory of production facilities: 13,02ha.



#### **COTTON CELLULOSE**

- Production capacity: 2
   production lines 30 000 (full capacity) MT per year.
- Commissioning year: 2002.
- Equipment manufacturer: «Unionmatex Industrianlagen GmbH» and «Josef Meissner GmbH & Co» Germany.
- Export 90% (Russia, Germany, Ukraine, Bulgaria, Indonesia, Serbia, China, Iran and others).



• Sheet cellulose TSh 24095100-02-2014



 Unconsolidated cellulose GOST 595-79



# **COTTON CELLULOSE**

Quality Index	Specification
Appearance	White porous mass, without impurities: splinter, sand, gum, metal scraps and other non-cellulose add-ons.
Mass Fraction of alpha cellulose, %, not less than:	
a) mass-method	for 25, 35 marks - 97,7
b) photometric method	for others - 98,0 for 25, 35 marks - 97,7
	for others - 98,0
Wettability, g, not less	140-145
Mass share of water, %, not more	10,0
Mass share of ash, %, not more	0,2
Mass share of sulphuric acid insoluble residue water, %, not more	0,30
Mass share of fibrous dust, %, not more	0,2
Whiteness, %, not less	85
Weight of iron, mg/kg in bonedry cellulose	-
Dynamic viscosity,	cPa for marks:
15	1,0-2,0 (10-20)
25	2,1-3,0 (21-30)
35	3,1-4,5 (31-45)
70	4,6-8,5 (46-85)
100	8,6-11,5 (86-115)
150	11,6-17,5 (116-175)
250	17,6-30,0 (176-300)
350	30,1-43,0 (301-430)
650	43,1-85,0 (431-850)





# **CELLULOSE APPLICATION**

### Enterprises of chemical industry use cotton cellulose for:

- smokeless gunpowder, explosives, solid propellants;
- food blocks (casings for sausages and other meat products);
- esters and concentrates (thickeners) (dairy products with low fat, cosmetics,
- pharmaceuticals, construction materials, etc.);
- viscose yarn (lining fabric, the consolidation of tires, hoses);
- -acetate (LCD screens, high-quality plastic, film, fiber-fiber).

# n the paper industry cotton cellulose used as a raw material in the production:

- filters (automotive, laboratory, industrial);
  - writing and paper accessories;
  - top quality paper, letterhead;
    - money;
    - disposable diapers;
    - feminine hygiene;
  - household absorbent wipes, mops and baby wipes;
    - high-quality toilet paper.



# WATER TREATING SECTION

According to the Resolution of the Cabinet of Ministers of Uzbekistan No. 166 from 2012 Fergana Chemical Plant built a new advanced boiler department with Water treating section.

- > Commissioning year: 2014.
- > **Production capacity:** 25 tons of steam per hour.
- > Equipment manufacturer: «ICI CALDAIE SpA», Italy