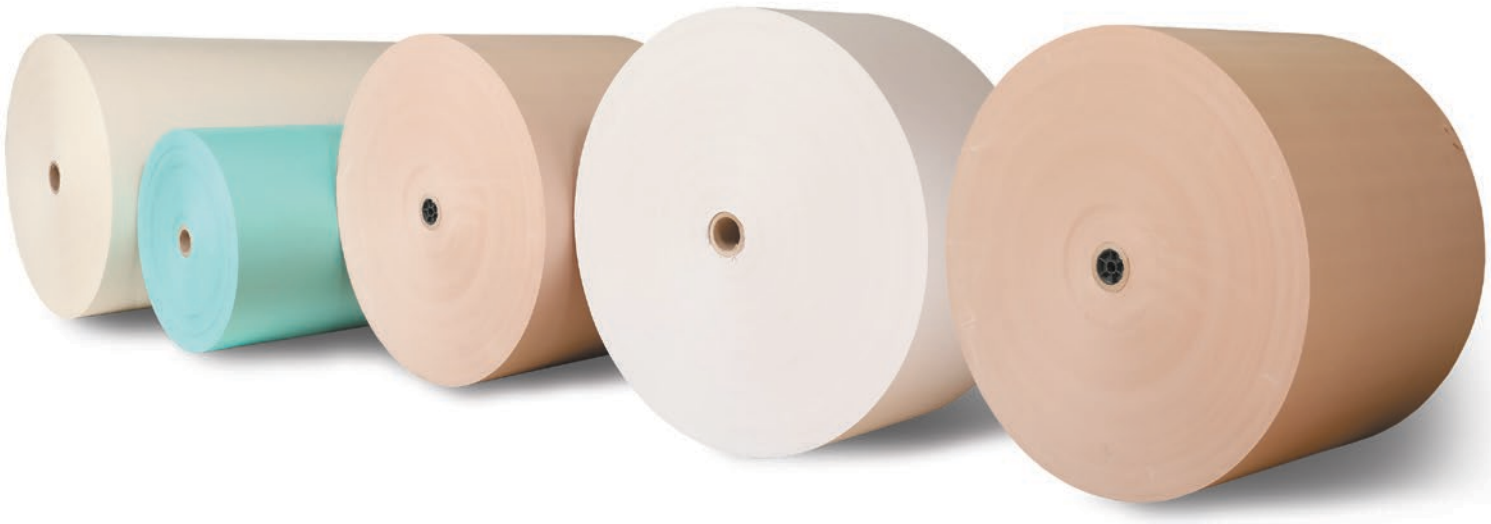
volga



VOLGA JSC

BALAKHNA PAPER MILL

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VOLGA JSC

BALAKHNA PAPER MILL

Company Products

About the Company

Volga Joint Stock Company is a vertically integrated timber industry enterprise. It is one of the largest paper mills in Russia. The Company specializes in the manufacture of light and ultra-light containerboard and produces packaging and printing paper.

The mill is located on the banks of the Volga river in Balakhna, Nizhny Novgorod region, 450 km from Moscow. The history of the Company dates back to 1928, when the first paper-making machine was launched. Since then, the Company has evolved and modernized in line with global trends in the pulp and paper industry.

In 2024, we launched Paper machine №6 and MM-500 recycled pulp line. This made it possible to increase the production capacity of the industrial complex to 500 thousand tonnes per year and provide the Customers of Volga JSC with the necessary product volume of benefit-giving qualities.

The products of Volga JSC have been repeatedly awarded with diplomas of the All-Russian competition «100 Best Goods of Russia» and are exported to more than 60 countries of the world.

Key Benefits

Proven product **quality**
own quality laboratory, investments in equipment, availability of quality certificates and diplomas

Attractive **logistics** solutions
availability of convenient transport infrastructure, implementation of multimodal shipments, delivery of products to any destination in the world

Customer **service**
timely execution of orders, agreed terms for receiving products, prompt support for the Buyer, the ability to place an order through a personal account

Wide **range** of products
more than 100 commodity items, many available paper sizes and weights

Flexible **financial** instruments
individual terms of cooperation

Contribution to the **environment**
use of thermomechanical pulp and waste paper, responsible forest management, respect for the environment

Countries of Volga JSC presence
Routes and logistics

Russia

Saint Petersburg

JSC «Volga»
Nizhny Novgorod

Moscow

Belarus

Kazachstan

Astrakhan

Uzbekistan

Novorossiysk

Georgia
Armenia
Azerbaijan

Turkey

Lebanon

Israel

Jordan

Iraq

Anzali

Iran

Turkmenistan

Tajikistan

Kyrgyzstan

Dostyk

Naushki

Zabaikalsk

Mongolia

Harbin

Zamyn-Uud

Grodekovo

Vladivostok

Beijing

China

Chengdu

Shanghai

Changsha

Guangzhou

Shilong

Nepal

Pakistan

Bender Abbas

UAE

Saudi Arabia

Bangladesh

Myanmar

India

Thailand

Vietnam

Cambodia

Philippines

Sri Lanka

Singapore

Indonesia

Tunisia

Morocco

Algeria

Libya

Egypt

Mali

Senegal

Nigeria

Benin

Ghana

Ivory Coast

Cameroon

Congo

Uganda

Kenya

Ethiopia

Yemen

Tanzania

Angola

Zambia

Madagascar

South Africa

Haiti

Puerto Rico

Dominican Republic

Mexico

Guatemala

Honduras

Nicaragua

Costa Rica

Panama

Curacao

Trinidad and Tobago

Venezuela

Guyana

Colombia

Ecuador

Peru

Brazil

El Salvador

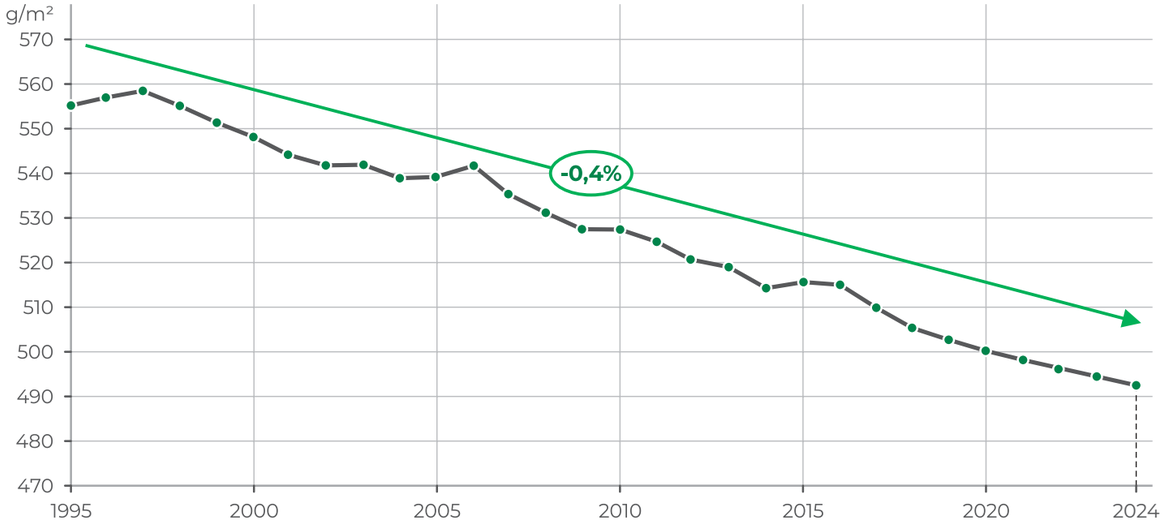
Chile

Argentina

Uruguay

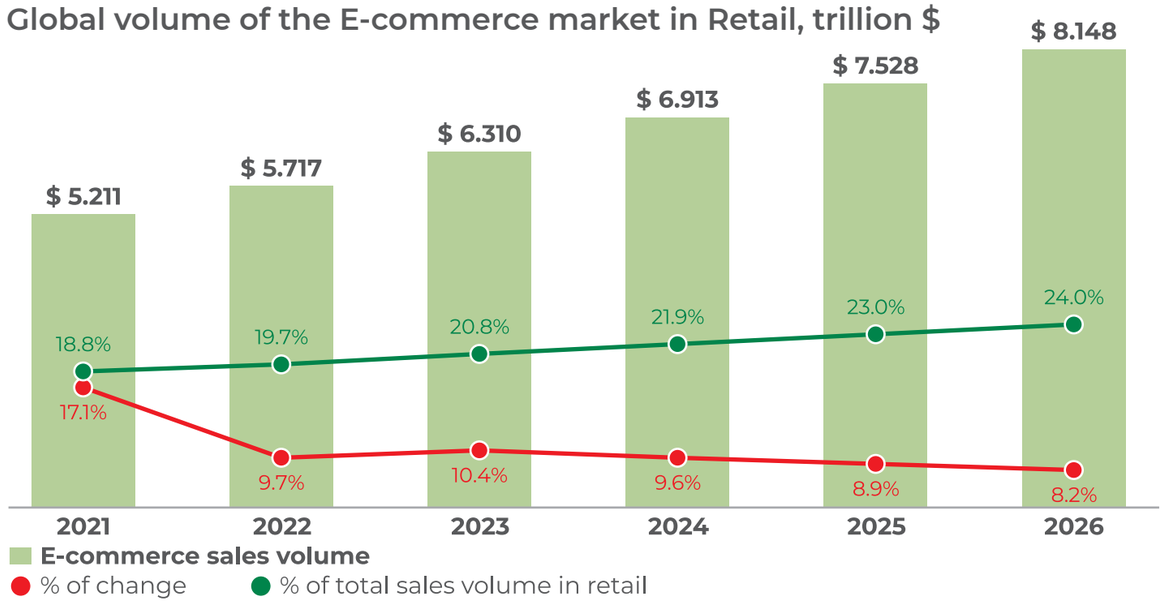
Current trends in the Corrugated Fiberboard Market

Reduction in corrugated packaging weight – long-term movements in the global market



The main driver of reduction in package weight is the gaining share of on-line purchases and goods delivery services.

Global volume of the E-commerce market in Retail, trillion $



Volga JSC specializes in the production of light and ultra-light containerboard from 42gsm to 120gsm, which are in demand in the fast-growing E-commerce segment.

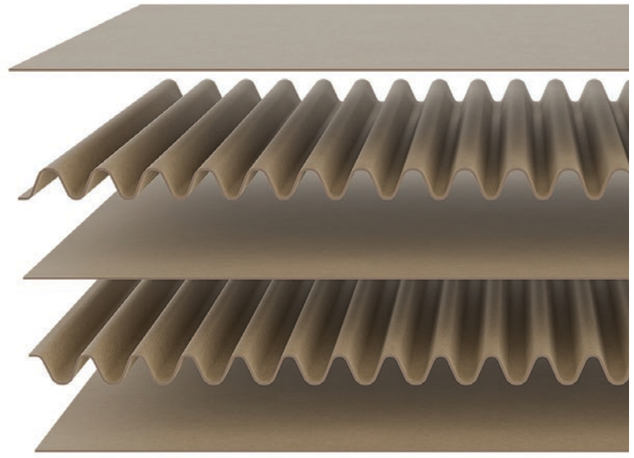
Liner 65-120gsm

Fluting 60-120gsm

Interliner 42-60gsm

Fluting 60-120gsm

Liner 65-120gsm



The use of lightweight containerboard in the production of corrugated cardboard allows reducing the specific consumption of components in the terms of a square meter of cardboard.

When switching to lightweight and ultra-light containerboards from Volga JSC, corrugated cardboard manufacturers receive a larger surface area compared to standard containerboard.

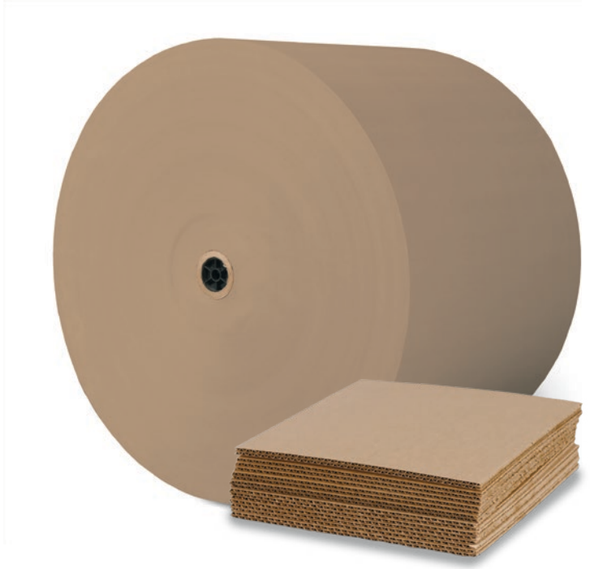
- 1 tonne 140 gsm containerboard – 7,143 square meters of surface area
- 1 tonne 90 gsm fluting paper or liner – 11,111 square meters of surface area
- 1 tonne 45 gsm interliner Volga JSC – 22,222 square meters of surface area

Corrugated fiberboard manufacturers are heavily experimenting with packaging characteristics in order to minimize costs while maintaining a sufficient level of consumer properties. The experimental results are focused on reduction in package weight driven by combination of ultra-light layers.

Volga Liner

High performance liner

- high strength
- low water absorption
- cost effectiveness
- uniform winding density
- web stability
- high print quality
- environmental friendliness



HS code: 480519

Volga Liner is a premium quality product, lightweight yet still high-performing containerboard, produced from virgin TMP fibers and selected recycled fibers.

Applications:

- for the production of corrugated cardboard
- packaging and wrapping paper
- for the production of paper bags

Reel width (mm)	Basis weight (g/m²)	Reel diameter (mm)	Raw materials	Shade[1]
420-2500	65 – 120	1000-1250	TMP + OCC	brown

Parameters	Unit	Grade	65	70	75	80	90	100	110	120
Substance	g/m2	Target	65 ± 3	70 ± 3	75 ± 3	80 ± 3	90 ± 3	100 ± 5	110 ± 5	120 ± 5
Surface area	m2/MT	Target	15 385 ± 744 679	14 286 ± 640 587	13 333 ± 556 513	12 500 ± 487 452	11 111 ± 383 358	10 000 ± 526 476	9 091 ± 433 395	8 333 ± 362 333
Moisture	%	Target	7 ± 1	7 ± 1		7 ± 1	7 ± 1	7 ± 1		7 ± 1
Volga Liner HP										
Absolute Bursting Strength (BST), ISO 2758	kPa	min	182	196	210	224	252	280	308	336
Short Span Compression test SCT (cd)	kN/m	min	1,24	1,33	1,43	1,52	1,71	1,90	2,09	2,28
One-sided water absorption ($Cobb_{60}$), average for two sides of sized paper	g/m2	max	40							
BST index	kPa*m2/g	min	2,8	2,8	2,8	2,8	2,8	2,8	2,8	2,8
SCT index	N*m/g	min	19,0	19,0	19,0	19,0	19,0	19,0	19,0	19,0
Volga Liner 1										
Absolute Bursting Strength (BST), ISO 2758	kPa	min	182	196	210	224	252	260	270	290
Short Span Compression test SCT (cd)	kN/m	min	1,14	1,23	1,31	1,40	1,58	1,75	1,93	2,10
One-sided water absorption ($Cobb_{60}$), average for two sides of sized paper	g/m2	max	70							
BST index	kPa*m2/g	min	2,8	2,8	2,8	2,8	2,8	2,6	2,5	2,4
SCT index	N*m/g	min	17,5	17,5	17,5	17,5	17,5	17,5	17,5	17,5
Volga Liner 2										
Absolute Bursting Strength (BST), ISO 2758	kPa	min	143	154	165	176	200	220	240	260
Short Span Compression test SCT (cd)	kN/m	min	1,01	1,09	1,16	1,24	1,40	1,55	1,71	1,86
One-sided water absorption ($Cobb_{60}$), average for two sides of sized paper	g/m2	max	100							
BST index	kPa*m2/g	min	2,2	2,2	2,2	2,2	2,2	2,2	2,2	2,2
SCT index	N*m/g	min	15,5	15,5	15,5	15,5	15,6	15,5	15,5	15,5

Conditions of testing: temperature 23 ± 1°C; RH: relative humidity (50 ± 2)%

[1] Shade can vary, confirm the shade based on product samples

Volga Medium

High performance corrugating medium

- high strength
- low water absorption
- cost effectiveness
- uniform winding density
- web stability
- high print quality
- environmental friendliness

HS code: 480519

Volga Medium is a premium quality product, lightweight yet still high-performing fluting, produced from virgin TMP fibers and selected recycled fibers.

Applications:

- for the production of corrugated cardboard
- packaging and wrapping paper
- for the production of paper bags

Reel width (mm)	Basis weight (g/m²)	Reel diameter (mm)	Raw materials	Shade[1]
420-2500	65 – 120	1000-1250	TMP + OCC	brown

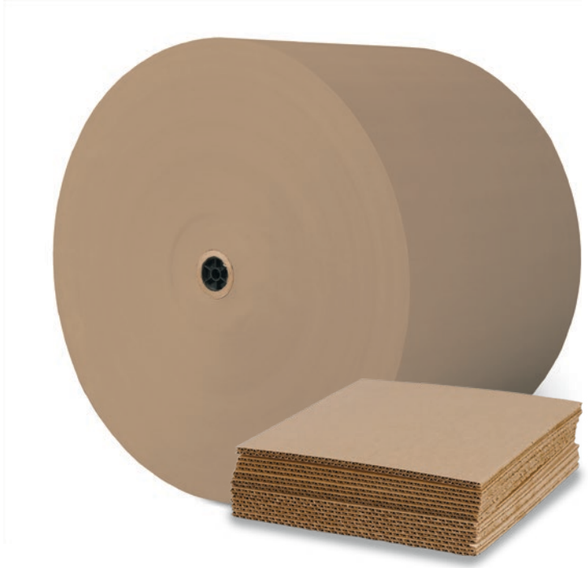
Parameters	Unit	Grade	65	70	75	80	90	100	110	120
Substance	g/m2	Target	65 ± 3	70 ± 3	75 ± 3	80 ± 3	90 ± 3	100 ± 5	110 ± 5	120 ± 5
Surface area	m2/MT	Target	15 385 ± 744 679	14 286 ± 640 587	13 333 ± 556 513	12 500 ± 487 452	11 111 ± 383 358	10 000 ± 526 476	9 091 ± 433 395	8 333 ± 362 333
Moisture	%	Target	7 ± 1	7 ± 1		7 ± 1	7 ± 1	7 ± 1		7 ± 1
Volga Medium HP										
Concoro Medium Test (CMT30) , with 15 mm wide tape	N	min	104	110	120	130	160	180	200	220
Corrugated Crush Test (CCT30)	kN/m	min	0,6	0,7	0,75	0,8	0,9	1	1,2	1,3
Short Span Compression test SCT (cd)	кN/m	min	1,11	1,19	1,28	1,36	1,53	1,70	1,87	2,04
One-sided water absorption ($Cobb_{30}$), average for two sides of sized paper	g/m2	max	70							
CMT30 index	N*m2/g	min	1,6	1,6	1,6	1,6	1,8	1,8	1,8	1,8
CCT index	N*m/g	min	9,2	10,0	10,0	10,0	10,0	10,0	10,9	10,8
SCT index	N*m/g	min	17,1	17,0	17,1	17,0	17,0	17,0	17,0	17,0
Volga Medium 1										
Concoro Medium Test (CMT30) , with 15 mm wide tape	N	min	100	110	120	130	144	160	176	192
Corrugated Crush Test (CCT30)	kN/m	min	0,55	0,64	0,7	0,75	0,85	0,9	1	1,2
Short Span Compression test SCT (cd)	кN/m	min	1,00	1,09	1,13	1,20	1,35	1,50	1,65	1,80
One-sided water absorption ($Cobb_{30}$), average for two sides of sized paper	g/m2	max	70							
CMT30 index	N*m2/g	min	1,5	1,6	1,6	1,6	1,6	1,6	1,6	1,6
CCT index	N*m/g	min	8,5	9,1	9,3	9,4	9,4	9,0	9,1	10,0
SCT index	N*m/g	min	15,4	15,5	15,1	15,0	15,0	15,0	15,0	15,0
Volga Medium 2										
Concoro Medium Test (CMT30) , with 15 mm wide tape	N	min	85	91	98	104	117	130	143	156
Corrugated Crush Test (CCT30)	kN/m	min	0,5	0,55	0,6	0,65	0,75	0,85	0,95	1,1
Short Span Compression test SCT (cd)	кN/m	min	0,88	0,95	1,01	1,08	1,22	1,35	1,49	1,62
One-sided water absorption ($Cobb_{30}$), average for two sides of sized paper	g/m2	max	120							
CMT30 index	N*m2/g	min	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3
CCT index	N*m/g	min	7,7	7,9	8,0	8,1	8,3	8,5	8,6	9,2
SCT index	N*m/g	min	13,5	13,5	13,5	13,5	13,5	13,5	13,5	13,5

[1] Shade can vary, confirm the shade based on product samples

Interliner

Corrugated case material for flat inner layers of corrugated board

- 100% virgin fiber
- cost effectiveness
- uniform winding density
- web stability
- wide range of applications
- safe food contact[1]
- environmental friendliness



HS code: 480519 / 480591

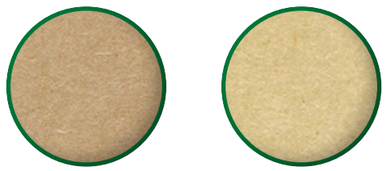
The use of ultra-lightweight liners for flat inner layers of corrugated board is a modern trend and allows reducing the specific consumption of components (in terms of a square meter of cardboard) without compromising structural strength.

Applications:

- for the production of corrugated cardboard
- universal packaging and wrapping material (for flowers, food and fragile products)
- as a box filler
- for the production of paper bags for fast food
- in furniture production

Reel width (mm)	Paper basis weight (g/m²)	Reel diameter (mm)
420-2500	42 – 59	1000-1250

Paper Shade[2]



Brown | Golden shade

Indicators		Norms								
Basis weight, g/m²		42 ±1	43 ±1	45 ±1	47 ±1	48 ± 1	48,8 ±1	52 ±1,5	55 ±3	58 ±0.5
Concoro Corrugating Medium Test (CMT_{30}), N, min		25		35				45		60
Absolute bursting strength, kPa, min		80		90				100		125
Tensile strength in MD (machine direction), kN/m, min.		1,9		2,2				2,5		2,8
Corrugated Crush Test (CCT_{30}), kN/m, min.		0,20		0,25				0,30		0,35
$Cobb_{30}$, $Cobb_{60}$, g/m², average for two sides, max.	sized paper	130*								
	unsized paper	Not applicable								
Moisture, %		7,5 ± 1,0								
Shade a		3,55+/-0,75 brown								
Shade b		15,0 +/-2,0 brown								
Reel diameter tolerance, mm		+10/-30								
Reel width tolerance, mm		+/-1								
Amount of mill joins		one per 10 reels								

* A specific value is set by agreement with the client

[1] Should be indicated in order specification

[2] Shade can vary, confirm the shade based on product samples

Fluting

Fluting Paper

- cost effectiveness
- uniform winding density
- web stability
- wide range of applications
- environmental friendliness

HS code: 480519

The use of lightweight corrugating medium in the production of corrugated cardboard is a modern trend and allows reducing the specific consumption of components (in terms of a square meter of cardboard) without compromising structural strength.

Applications:

- for the production of corrugated cardboard
- universal packaging and wrapping material (for flowers, food and fragile products)
- as a box filler
- for the production of paper bags
- in furniture production

Reel width (mm)	Paper basis weight (g/m²)	Reel diameter (mm)
420-2500	60 – 100	1000-1250

Paper Shade[1]

Brown | Natural shade

Parameters		Norms 60 g/m2	70 g/m2	80 g/m2	90 g/m2	100 g/m2
Substance, g/m²		60 ± 3	70 ± 3	80 ± 3	90 ± 3	100 ± 5
Concoro Corrugating Medium Test (CMT30) , with 15 mm wide tape, N, min		70	90	120	140	160
CMT30 index, N*m²/g, min		1,17	1,29	1,50	1,56	1,60
Absolute Bursting Strength (BST), kPa, min (ISO 2758)		150	160	170	190	200
BST index, kPa*m²/g, min (ISO 2758)		2,50	2,29	2,13	2,11	2,00
Tensile Strength MD, kN/m, min		3,1	3,9	4,3	4,8	5,0
Corrugated Crush Test (CCT30), kN/m, min		0,40	0,50	0,60	0,70	0,80
$Cobb_{30}$, $Cobb_{60}$, g/m², average for two sides, max	sized paper	130*				
	unsized paper	Not applicable				
Moisture, %		7,0 ± 1,0				
Reel Diameter Tolerance, mm		± 20				
Reel Width Tolerance, mm		± 2				
Joints per Reel, max		2				

* A specific value is set by agreement with the buyer

[1] The shade can vary, confirm the shade based on product samples

Newsprint paper

- 100% virgin fiber
- zero dusting
- uniform winding density
- web stability
- high print quality[1]
- wide range of applications
- environmental friendliness

The use of 100% thermomechanical pulp (TMP) in paper production allows manufacturing environmentally friendly products that are not inferior in terms of consumer properties to paper made from cellulose or recycled pulp.

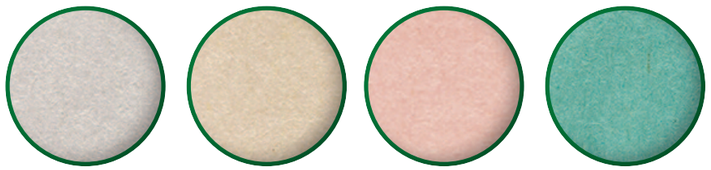
HS code: 480100

Applications:

- newspapers, magazines, tabloids, periodicals
- advertising leaflets, booklets, catalogs
- block calendars, price lists, checklists
- forms, questionnaires, invoices, receipts, coupons, labels
- instructions, guidance manuals, reference books
- in textile industry (for patterns)

Brightness	Paper basis weight (g/m²)
ISO 59-61 ISO 64 (made to order)	40 – 58

Paper Shade²



Standard | Creamy | Salmon | Green

Parameters	40 g/m2	42 g/m2	42.5 g/m2	45 g/m2	48 g/m2	48.8 g/m2	52 g/m2	55 g/m2	58 g/m2
Basis weight, g/m2	40,0 +/-0,5	42,0 +/-0,5	42,5 +/-0,5	45,0 +/-0,5	48,0 +/-0,5	48,8 +/-0,5	52,0 +/-0,5	55,0 +/-0,5	58,0 +/-0,5
Composition	TMP – 100%								
Thickness, mm	max 0,069	max 0,072	max 0,072	max 0,077	max 0,082	max 0,083	max 0,090	max 0,095	max 0,100
Density, g/cm3	0,60 +/-0,03								
Bulk, cm3/g	1,69 +/-0,03								
Moisture, %	8,0 +/- 0,5								
Absolute crosswise tearing resistance, mN	min 210	min 220		min 250	min 280		min 290	min 300	min 310
Breaking length in MD, km	min 4,8	min 4,9	min 4,9	min 5,0	min 5,0		min 5,1		
Elongation, %	min 0,70	min 0,75	min 0,75	min 0,80					
Roughness (Bendtsen), ml/min	100 +/- 20						120 +/- 20		
Porosity (Bendtsen), ml/min	max 550	max 500		max 450	max 400		max 350		
Brightness, %, (R457 C)	60 +/- 1								
Opacity, %	min 89	min 90	min 90	min 91	min 93		min 94		
Shade a	-0,35 +/- 0,15 standard				1,20 +/-0,25 cream				
Shade b	3,5 +/- 0,5 standard				9,0 +/-1,5 cream				
Reel diameter tolerance, mm	+10/-30								
Reel width tolerance, mm	+/-1								
Number of splices	one per 10 reels								

[1] Cold Set Web Offset (CSWO)

[2] The shade can vary, confirm the shade based on product samples

Bulky newsprint paper

- 100% virgin fiber[1]
- zero dusting
- uniform winding density
- web stability
- high print quality[3]
- wide range of applications
- environmental friendliness

HS code: 480261

The use of 100% thermomechanical pulp (TMP) in paper production allows manufacturing environmentally friendly products that are not inferior in terms of consumer properties to paper made from cellulose or recycled pulp.

Range of use:

- books, magazines, tabloids
- advertising leaflets, booklets, catalogs
- block calendars, checklists, price lists
- forms, questionnaires, invoices, receipts, coupons, labels
- instructions, guidance manuals, reference books

Brightness	Paper basis weight (g/m²)
ISO 59-61 ISO 64 (made to order)	42 – 80

Paper Shade[4]

Standard | Creamy | Salmon | Green | Brown

Parameters	42 g/m2	45 g/m2	48.8 g/m2	52 g/m2	55 g/m2	60 g/m2	65 g/m2	80 g/m2
Composition	TMM - 100 %							
Basis weight, g/m2	42,0 +/-1	45,0 +/- 1	48,8 +/- 1	52,0 +/- 1	55,0 +/- 1	60,0 +/- 1	65,0 +/- 1	80,0 +/- 1
Thickness, mm	min 0,100	min 0,105	min 0,115	min 0,120	min 0,125	min 0,140	min 0,145	min 0,185
Density, g/cm3	min 0,40							
Bulk, cm3/g	min 2,30						min 2,25	min 2,30
Moisture, %	8,0 +/- 1,0							
Absolute crosswise tearing resistance, mN	min 260	min 270	min 280	min 290	min 300	min 350	min 400	min 400
Breaking length in MD, km	min 5,50							
Elongation, %	min 1,0							
Roughness (Bendtsen), ml/min	1300 +/-100		1400 +/-100			1500 +/-100		
Porosity (Bendtsen), ml/min	max 400		max 300					
Whiteness, %	60+/-1							
Opacity, %	min 90	min 91	min 92	min 93		min 94	min 95	min 95
Shade a	-0,35 +/- 0,15 standard / 1,20 +/-0,25 cream							
Shade b	3,5 +/- 0,5 standard / 9,0 +/-1,5 cream							
Reel diameter tolerance, mm	+10/-30							
Reel width tolerance, mm	+/-1							
Number of splices	one per 10 reels							

[1] Made to order
[2] Should be indicated in order specification
[3] Cold Set Web Offset (CSWO)
[4] The shade can vary, confirm the shade based on product samples

Customer service and supply chain management

Volga JSC is strongly focused on the development of the Customer service and Customer support system. Reaching a new level of rate and efficiency of interaction with Customers plays an important role in achieving a competitive position of the company. Continuous exchange of ideas is a source of customer service upgrading and Volga JSC products improving.

Since Volga JSC has reached a new stage of strategic development, increased productivity, expanded the product range and geography of supplies, in 2022, a supply chain management department was introduced in the Company. The tasks of the newly formed department are to implement the integrated Sales and Operations Planning (S&OP) process, optimize supply chains, harmonize the interaction and data exchange based on the best world practices.

Implementation of the Customer's personal account on the Volga Company's website has become one of the first steps to improve the interaction efficiency. The personal account allows Customers to automate the products receipt processes: place orders, explore the status of live orders, dates of pending shipments and other parameters of interaction with Volga JSC.

Modern technology

The technological progress at JSC Volga begins with the wood preparation shop. The spruce wood coming here is cut on slasher tables and crushed in chopping machines to produce technological chips

From the wood preparation shop, the technological chips are sent via an automatic conveyor line for cumulus storage to a specially designated site.

Since 2015 JSC Volga has been producing paper using a new technology from thermomechanical pulp without cellulose. The thermomechanical pulp is produced in the TMP plant by two-stage grinding of steamed wood chips on disk mills-refiners.

To meet customers' requirements for the whiteness of newsprint paper, the whiteness of the thermomechanical pulp can be varied over a wide range (59-61% ISO), with consistently high mechanical strength.

After sorting, cleaning and deaeration, the whitened thermomechanical pulp is delivered from the TMP plant to the paper plant No. 3. The paper making equipment is used for casting, forming, pressing and dewatering the paper web.

Control and adjustment of the weight per square meter of paper, as well as humidity and bulkiness profile are performed automatically.

ESG strategy

Volga JSC activities in the area of sustainable development and corporate social responsibility are based on best practices, international and Russian standards and principles.

Environmental Consciousness

Volga JSC thinks of environmental protection activities as an integral part of its daily work. Production waste is used as a renewable energy source. At the end of the lifetime cycle, Company's products become a source of raw materials for recycling.

The Company has highest regard for the environmental characteristics of raw materials, works hard on the energy recovery from production waste, supports various environmental initiatives.

In its activities, Volga JSC is guided by the "3R Rule", in particular:

- Reduce the waste amount;
- Reuse secondary material resources as raw stuff;
- Recycle resources.

100%
of wood is used in the production process

100%
of eco-friendly pulp is used in paper production

97%
of waste is recycled

83%
of water is reused

98%
of emissions are caught in gas purifying plants

100%
of industrial and storm wastewater are purified at 5-stage biological treatment plant

Sustainable Forestry

Volga JSC products are manufactured from the wood grown in the forests managed in an ecologically and socially responsible way. Such management is carried out in order to maintain and improve the socio-economic well-being of the local population and respect their rights, preserve the biological diversity, water resources, soils, as well as unique ecosystems and landscapes.

Social accountability

Volga JSC pursues charitable and sponsorship activities, providing assistance to educational and medical institutions, creative and sports teams within its footprint. Conventional charity events that are held on the New Year, Day for the Elderly, Decade of Disabled Persons, focused on caring for employees with disabilities and drawing public attention to their problems.

Development Strategy

The Company's strategic vision involves diversification of its product portfolio, markets, distribution channels and raw materials. The strategy includes modernization of the entire enterprise, starting with production facilities and ending with logistics and IT infrastructure. One of the mainstays is to maintain competitiveness in the producing costs through full provision of the enterprise with own electricity now and in the future. All newly created and upgraded facilities will meet the latest requirements in accordance with the best available technologies.

Stage I. 2021–2024 — Completed

Volume
+170 ths. tons/year.

Product Portfolio
Liner (65-120 g/m2)
Container board (42-100 g/m2)

Total output
500 ths. tons/year

- Launching PM6 for the manufacture of containerboard (+140 ths. tons)
- Start of MM-500 recycled pulp line for PM6 and increase in PM5 and PM8 capacity (+30 ths. tons)
- Launch of a condensing steam turbine in the power complex (NiGRES)
- Electric power supply to Stages 1-3

Stage II. 2025 – 2026 — Ongoing

Volume
Without increase in output

Product Portfolio
Topliner (100-120 g/m2)

Total output
500 ths. tons/year.

- Installation of the top forming fabric on PM6 – modernization of equipment for Topliner manufacture

Stage III. 2024 – 2028

Volume
+80 ths. tons/year.

Product Portfolio
Interliner (42-59 g/m2)
Fluting (60-100 g/m2)
Newsprint (42-58 g/m2)

Total output
580 ths. tons/year.

- Increasing the speed of PM5 and PM8 for the manufacture of all Volga JSC product types
- Modernization of TMP-180 workshop – increase in the volume of raw materials for the manufacture of paper and containerboard

Transportation and Storage of Products

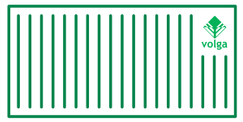
Loading by paper type

Truck

All paper types*
20 tons

Bulky paper
16 tons

40’ container (High Cube)



All paper types*
25-26 tons

Bulky paper
18-22 tons

Rail car

All paper types*
59-62 tons

Bulky paper
43-45 tons

Storage and transport rules

Paper reels should be stored in sheltered warehouses protected from precipitation and soil moisture, with a solid, smooth, non-slippery base.

Paper reels should be transported packaged by any means of transport, in covered vehicles in accordance with the transport-specific rules of cargo transportation.

Unloading operations should be carried out by trained personnel, using mechanized means(fork-lifts) equipped with a reel clamps and with the pressure recommended by the manufacturer (specified on the reel label).

For stack stability and paper integrity, the reels should be placed at a height of no more than 6 meters.

The reels should be stacked reel-on-reel, their vertical displacement by more than 5% of the lower reel diameter is prohibited.

Putting reels of a larger diameter on reels of a smaller diameter is prohibited if the diameter difference is more than 5% with respect to the smaller reel.

Recommended storage and processing conditions for containerboard and paper

Storage

Temperature
-15 – +25^{0}C
Moisture
40 – 75%

Processing

In the warm season

Temperature
-19 – +23^{0}C
Moisture
50 – 60%

In the cold season

Temperature
-18 – +22^{0}C
Moisture
45 – 55%

After cold storage, it is necessary to adapt the paper to the processing conditions for up to two days.

Long-term storage of paper in conditions that do not comply with the recommendations may lead to a weaker performance compared to the one stated in the specification. We recommend using delivered paper within 60 days from the date of receipt.

* Except for bulky paper

Recommended pressure in fork-lift clamps and reel transfer advice

№	Reel weight	Auramo				Cascade			
		kgf/cm²	bar	kN/cm²	kN	kgf/cm²	bar	kN/cm²	kN
1	up to 500 kg	24	23	23	10	28	27	27	12
2	up to 1000 kg	36	35	35	17	40	39	39	18
3	up to 1400 kg	46	45	45	23	55	53	53	25
4	More than 1400 kg	46	45	45	23	55	53	53	25

Reel transfer

Reel diameter	Format up to 96 cm	Format up to 105 cm	Format up to 126 cm	Format 126 cm and more
100-105 cm	by 2 reels	by 2 reels	by 2 reels	by 1 reel
106.7-115 cm	by 2 reels	by 2 reels	by 1 reel	by 1 reel
125 cm	by 2 reels	by 1 reel	by 1 reel	by 1 reel

Certificates and Diplomas

JSC Volga is certified to ISO 9001:2015

“100 Best Goods of Russia-2020” competition (Low-weight newsprint) laureate diploma

“100 Best Goods of Russia-2023” competition (Packaging paper) laureate diploma

“100 Best Goods of Russia-2023” competition (Newsprint) diploma winner

“100 Best Goods of Russia-2020” competition (Liner board) diploma winner

“100 Best Goods of Russia-2020” competition (Bulk paper) diploma winner

Certificate of Conformity for Paper for liner board

Certificate of Conformity for low-weight paper

Certificate of Conformity for newsprint paper (GOST 6445-74)

Contact us

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