All steel truck tire KAMA

Nizhnekamsk
History of OAO Tatneft network of tire enterprises

29.04.1973
Production of the first tube 6,15-13 УК-13 (date of tire plants establishment)

01.04.1974
First production line with capacity of 450 ths tires of the truck tire plant was accepted for operation

16.07.1973
Was built first trial PC tire for “Zhiguli” car

16.12.1973
Production of the first tube 6,15-13 УК-13 (date of tire plants establishment)

16.07.1974
First production line with capacity of 1.5 mln tires per year was set into operation

25.01.1974
1 mln tires produced

25.10.1974
Product range included 7 tire models

30.06.1978
First production line with capacity of 450 ths tires of the truck tire plant was accepted for operation

05.01.1974
1 mln tires produced

1975 год
Product range included 7 tire models

16.12.1987
Production of tires under “KAMA” brand

21.06.2000
Production of 250 mln tires produced

June 2004
Set-up of production of KAMA EURO tires under Pirelli technology

2010
Start of all steel truck tires production under foreign partner technology

2000
JSC NKSH was included into group of companies of JSC Tatneft

2003
Start of Viatti tires production

2007
22.07.2007
300 mln tires produced

2008
250 mln tires produced

2010
Start of Viatti tires production

More than 40 years on the market!
OAO Tatneft network of tire enterprises today

- OAO Nizhnekamskshina
- OAO Nizhnekamsk truck tire plant
- OOO NASTP
- OAO Nizhnekamsk Carbon Black Plant

- OOO Tatneft-Neftekhimsnab
- OAO Nizhnekamsk Mechanical Plant
- ZAO Yarpolimermash-Tatneft
- OOO Energoshinservis

- OOO Scientific & Technical center Kama

- OOO Trading House Kama

Production

Purchase and service

R&D

Sales
## Range of products produced

<table>
<thead>
<tr>
<th>Plant</th>
<th>Products produced</th>
<th>Share of the plant in total products output*</th>
</tr>
</thead>
<tbody>
<tr>
<td>OAO Nizhnekamskshina</td>
<td>PC tires</td>
<td>79 %</td>
</tr>
<tr>
<td></td>
<td>LT tires</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Truck tires (tube type)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Agro-cultural tires</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Industrial tires</td>
<td></td>
</tr>
<tr>
<td>OOO Nizhnekamsk truck tire plant</td>
<td>Truck tires (tube type)</td>
<td>17 %</td>
</tr>
<tr>
<td></td>
<td>Agro-cultural tires</td>
<td></td>
</tr>
<tr>
<td>OOO NASTP</td>
<td>All steel truck tires (tubeless)</td>
<td>4 %</td>
</tr>
<tr>
<td>OAO Nizhnekamsk Carbon Black Plant</td>
<td>Carbon black of 14 grades</td>
<td>100 %</td>
</tr>
</tbody>
</table>

*In volume terms*
Advantages of all steel cord tires in comparison with conventional truck tires

**Conventional tire**

- Tread
- Steel belt
- Body ply
- Steel cord
- Textile cord
- Innerliner
- Bead ring

**All steel truck tire**

**Advantages of all steel tires in comparison with textile carcass ply**

<table>
<thead>
<tr>
<th>Parameters</th>
<th>All steel tire 315/80 R22.5 NF 201</th>
<th>Textile tire 12.00 R20 KAMA-310</th>
<th>Advantages of all steel tire</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire weight</td>
<td>64 kg</td>
<td>75 kg</td>
<td>Lower weight</td>
</tr>
<tr>
<td>Max allowable load on single/twin tires</td>
<td>4000/3350 kg</td>
<td>3750/3250</td>
<td>Higher load capacity</td>
</tr>
<tr>
<td>Tire mileage w/o retreading</td>
<td>200-250 ths km</td>
<td>70-80 ths km</td>
<td>Increased wear resistance</td>
</tr>
<tr>
<td>Max speed</td>
<td>120 km/h</td>
<td>100 km/h</td>
<td>Enhanced endurance</td>
</tr>
<tr>
<td>Multiple retreading (regrooving and tread replacement)</td>
<td>2-3 times</td>
<td>N/A</td>
<td>(mileage) - 200-250 ths km</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Reduction of fuel consumption by 15%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Speed performance improvement</td>
</tr>
</tbody>
</table>
In 2007 it was decided to establish a production plant of all steel truck tires together with leading European tire manufacturer in Nizhnekamsk.
Start of serial production – III quarter of 2010
Capacity estimated – 1,2 mln tires per year
Investments – more than 500 mln USD
Product range:
- 28 commodity items;
- 15 sizes of tires with bead seat diameter from 17,5 to 24
Off-take tires production for foreign partner.
KAMA all steel truck tires are manufactured on the most modern equipment that has no counterparts in Europe and Asia;

Steel cord calendering process, tire components manufacturing and the final build are performed on close control equipment;

The special recipe of rubber compounds on the base of natural rubber and silica that was developed by European partner provides the high quality of KAMA all steel truck tires;

All activities done by internal plant quality control ensure exclusive reliable and proved products offered to customers.
Raw material used

80% of raw materials is imported

Raw materials used are under constant control

Intercompany carbon black production plant
Increased tread thickness – **tyre life is 20% higher** in comparison to competitive all steel truck tires.

Triangled belt design – reduction of belt deformation and **fuel economy up to 5%** in comparison to competitive all steel truck tires.

Air-Keep technology - **stable tyre inflation pressure within 3 months** without additional inflation ensures even wear and fuel economy by rolling resistance decreasing.

Added bead strength – **increasing of load capacity** and **rubber overheating protection** under max load.

New grooves geometry – **best in class tread self-cleaning**, puncture and impact load protection.
### KAMA all steel truck tires labeling and classification

<table>
<thead>
<tr>
<th>245</th>
<th>70</th>
<th>R</th>
<th>19,5</th>
<th>136/134</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire profile width, in mm (from one sidewall to another)</td>
<td>Aspect ratio</td>
<td>Tire of radial construction diameter, in inches</td>
<td>Load index – identification number of max allowable load on single/twin tire</td>
<td>Speed category index – identification code of tire designed max speed</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Application</th>
<th>Highway / 1</th>
<th>Local / 2</th>
<th>City / 3</th>
<th>Off-road / 4</th>
<th>Winter / 5</th>
<th>Construction / 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front axle / передняя ось</td>
<td>NF 101</td>
<td>NF 201 / 202</td>
<td></td>
<td></td>
<td>NF 501</td>
<td>NF 701</td>
</tr>
<tr>
<td>Rear axle / задняя ось</td>
<td>NR 101</td>
<td>NR 201 / 202</td>
<td></td>
<td></td>
<td>NR 501</td>
<td>NR 701</td>
</tr>
<tr>
<td>Trailer / axle / трейлер</td>
<td>NT 201 / 202</td>
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<td></td>
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<tr>
<td>Universal / на все оси</td>
<td>NU 201</td>
<td>NU 301</td>
<td>NU 401</td>
<td></td>
<td></td>
<td>NU 701</td>
</tr>
</tbody>
</table>

**Nizhnekamsk**

01 – model order number
KAMA all steel truck tires model range

NF 201  NR 201  NF 202  NR 202  NF 701
NR 701  NT 201  NT 202  NU 301  NU 701
NU 301 tire model is designed for installation on any axle of urban buses and trolleybuses.

For ease of use this model has the following indicators:

1. Wear indicator (knife symbol), shows tread pattern wear and need of its regrooving.

2. Winter safety indicator (snowflake symbol), indicating tread groove wear and tire safety use in winter condition.

3. Sidewall wear indicator, allows continuous monitoring of tire state.
NF 201 and NF 202 models are designed to be mounted on the front (steering) axle of commercial vehicles and buses.

Longitudinal grooves to provide the effective water and dirt removal from the contact patch;

Lateral lugs for the confidence handling on earth roads;

Maximum speed 120-130 km/h (according to the dimension type);

Groovable and retreadable up to 3 times.

**NF 202 tires have remaining-tread depth indicators and M+S marking**
NR 201 and NR 202 models are designed to be mounted on the rare (driving) axle of commercial vehicles and buses.

Special tread pattern with large blocks and lateral lugs for the appropriate grip transmission;

Abrasion resistant and new tire run value increasing new rubber compound;

Maximum speed 120-130 km/h (according to the dimension type);

Groovable and retreadable up to 3 times.

NR 201 tires have remaining-tread depth indicators

NR 201/202 tires have the marking M+S

NR 201
NR 202
Soil moving tires

Models with digital index 701 are designed for the assembly on steering (NF model), driving (NR) and any other axles (NU) of commercial vehicles, the service of which implies driving on barrow pits and building sites.

Special tread pattern contributes to the perfect grip transmission even on wet soil. Enhanced tread thickness prevents from the tire failure due to the blowout. Optimized slope angle of blocks and longitudinal grooves provides the tire with perfect self-cleaning property.

- Maximum speed 110-120 km/h.
- Groovable and retreadable up to 3 times.
- M+S marking is available on NF and NU tires.
NT 201 и 202 models are designed for trailers and semitrailers. Advanced design and good workmanship help provide the stated load capacity, excellent performances of tire life and cost-effective service.

Longitudinal tread pattern grooves have a waveform, what contributes to the reduction of aquaplaning effect and improvement of the self-cleaning property. Maximum speed 100-120 km/h. Groovable and retreadable up to 3 times.

NT 202 tires have remaining-tread depth indicators and M+S marking.
### Available product range of All Steel Tires KAMA

<table>
<thead>
<tr>
<th>NF 201</th>
<th>NR 201</th>
<th>NF 202</th>
<th>NR 202</th>
<th>NU 301</th>
</tr>
</thead>
<tbody>
<tr>
<td>245/70R19,5</td>
<td>215/75R17,5</td>
<td>215/75R17,5</td>
<td>235/75R17,5</td>
<td>275/70R22,5</td>
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<tr>
<td>275/70R22,5</td>
<td>245/70R19,5</td>
<td>235/75R17,5</td>
<td>295/75R22,5</td>
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</tr>
<tr>
<td>295/80R22,5</td>
<td>285/70R19,5</td>
<td>285/70R19,5</td>
<td>295/80R22,5</td>
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<tr>
<td>315/60R22,5</td>
<td>275/70R22,5</td>
<td>295/75R22,5</td>
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<tr>
<td>315/80R22,5</td>
<td>315/60R22,5</td>
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</table>

<table>
<thead>
<tr>
<th>NF 701</th>
<th>NR 701</th>
<th>NT 201</th>
<th>NT 202</th>
<th>NU 701</th>
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<tbody>
<tr>
<td>11R22,5</td>
<td>12,00R20</td>
<td>385/65R22,5</td>
<td>235/75R17,5</td>
<td>315/80R22,5</td>
</tr>
<tr>
<td>12,00R24</td>
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<td></td>
<td>265/70R19,5</td>
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</table>
## Potential product range of All Steel Tires KAMA

<table>
<thead>
<tr>
<th>NF 101</th>
<th>NR 101</th>
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<th>NR 202</th>
<th>NT 202</th>
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</thead>
<tbody>
<tr>
<td>315/70R22,5</td>
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<td>225/75R17,5</td>
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<tr>
<td>295/60R22,5</td>
<td>295/60R22,5</td>
<td>385/65R22,5</td>
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<td>385/55R22,5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>225/75R17,5</td>
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</table>

<table>
<thead>
<tr>
<th>NF 501</th>
<th>NR 501</th>
<th>NU 201</th>
<th>NU 301</th>
<th>NU 401</th>
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</thead>
<tbody>
<tr>
<td>295/80R22,5</td>
<td>295/80R22,5</td>
<td>11.00R20</td>
<td>215/75R17,5</td>
<td>365/80R20</td>
</tr>
<tr>
<td>315/70R22,5</td>
<td>315/70R22,5</td>
<td></td>
<td>245/70R19,5</td>
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</tr>
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<td>12R22,5</td>
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<td>13R22,5</td>
<td></td>
</tr>
<tr>
<td>295/80R22,5</td>
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</tr>
</tbody>
</table>
Actual All Steel Tire KAMA life makes 200-250 ths. km.
Grooving and retreading of All Steel Tires KAMA

KAMA tire life arrives at 500 thousands km taking into account grooving and retreading.

Upon observance of retreading technique and use of qualitative materials, the life of retreaded tires can be associated with new tires life.

Retreaded tire 385/65R22,5 NT 201 on semi-trailer TOHAP ran over 90 thousands km with light tread wear.
Consumers of All Steel Tires KAMA

Leading OEM Consumers of All Steel KAMA tires

The largest FLEETs of the country opt for All Steel Tires KAMA

- OAO «Surgutneftegaz»
- МУЕ «Mosgortrans»
- OOO «Kama-Logistic Trans»
- OOO «Delko»
- OOO «Delovye Linii»
- OOO «Selta»

VOLGABUS
Общество с ограниченной ответственностью «Сельта»
Юридический адрес: 390072 г. Краснодар, ул. Сапожничая 135/5
Физический адрес: 450530, Челябинская область, Сосновский район, п. Сосновый, ул. Лейтенант, д. 21
ИНН 3118190070, КПП 746403001, БИК 047501602
Р/с 40702810700100003774, к/с 310181901000000751
ОКПО 50456599, ОКФС 61124 ОГРН 102310314873 ОКВЕД 63.40

ООО «Сельта» на данный момент использует шины Камиа серии Н в типоразмере 315/70R22.5. Эксплуатацию в городских условиях, международных перевозках с асфальтовым покрытием, а также по проселочным дорогам. За время использования шины зарекомендовала себя исключительно с положительной стороны, в том числе в зимний период. Ходимость шин составляет более 250 тысяч километров, не теряя при этом своих ходовых свойств.

В дальнейшем, я буду рекомендовать нашим партнерам и своим знакомым приобретать ЦМК-шины Камиа.

Главный механик
Дайны А. В.

Директор
Челябинского филиала
ООО «Сельта»
29.07.2013 г.
Quality management system, certificated on the compliance with International Standard ISO/TS 16949:2009
Products of Tire Enterprises Network are certified and passed the test according to ECE Regulations № 54 and 117.

Customs Union Compliance Certificates are available.
Thank you for being with us!