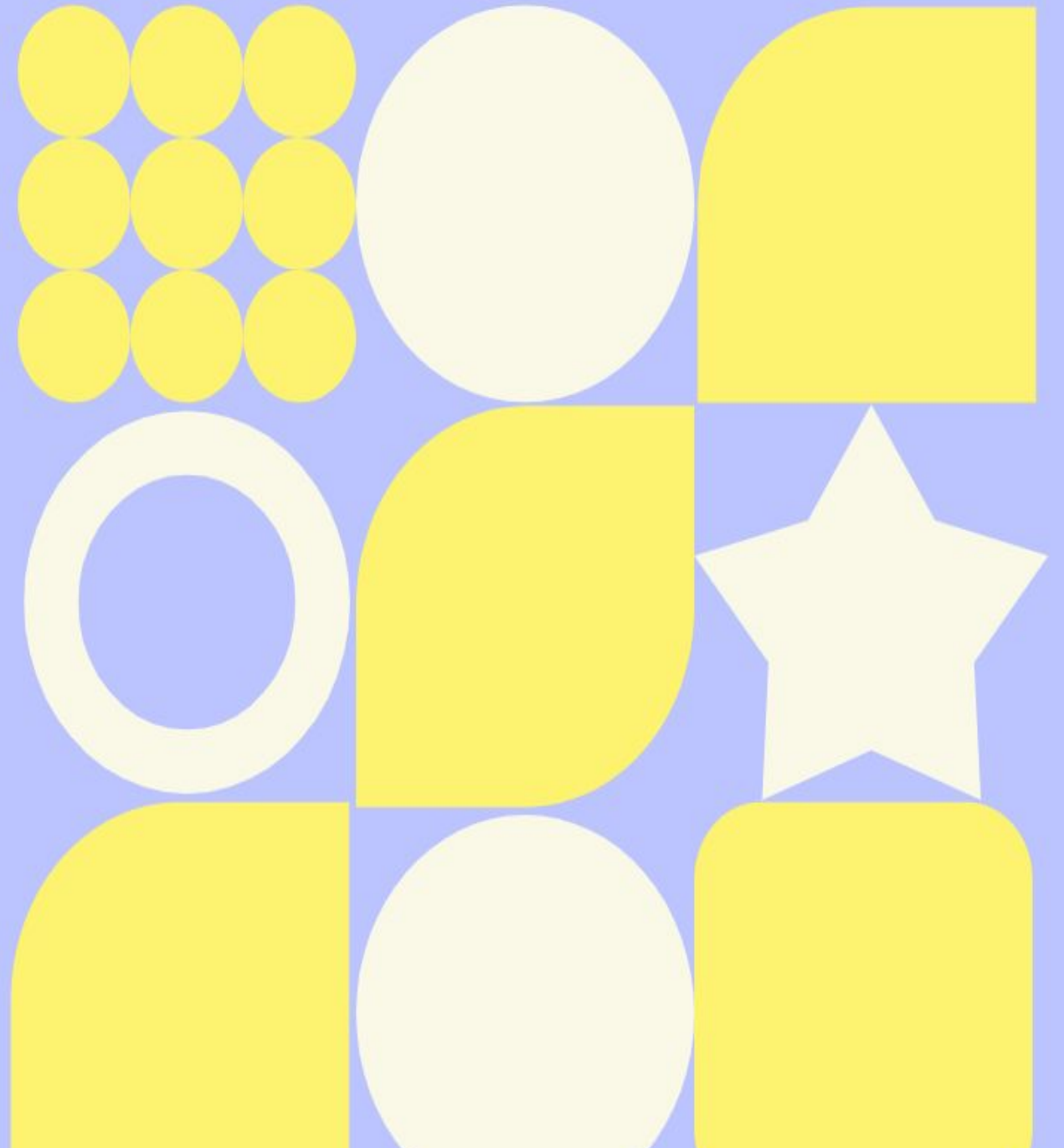
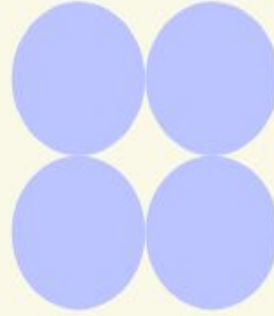


# Overview of JSC Ivanovo Technocarbon and Rubber's Carbon Black Grades

Diverse carbon black grades supporting  
rubber, plastics, paints, construction, and  
electrical uses



# The Vital Role of Carbon Black in Modern Industries



Carbon black enhances rubber, plastics, coatings, and electrical materials as filler, pigment, and reinforcer. Growing demand spans automotive, construction, and polymers, with JSC Ivanovo as a leading Russian supplier.



# P803: A Versatile Grade for Rubber and Coloration

P803 is extensively applied in manufacturing molded and profiled rubber technical items, including sleeves and shoes, offering reinforcement and color consistency.

It's integral to lacquers, paints, and enamels, delivering pigmentation and durability essential for industrial coatings.

In construction, P803 enhances cement-based mixtures, self-leveling floors, and tiles with coloration and structural benefits.

Also used to impart color to PVC, plastics, and polyethylene products, expanding its role in diverse polymer applications.

# P514: Reinforcing Properties and Specialty Functionalities

## 1 Strengthening Tire and Extruded Rubber Components

P514 serves as a reinforcing filler in tire bodies, chambers, and extruded products like rubber seals, cables, and hoses, enhancing mechanical performance and durability.



## 2 Functional Enhancements in Polymers

It imparts electrical conductivity, antistatic properties, UV radiation absorption and slows plastic aging, while also acting as a stable black pigment across various industries.



# P705: Durability and High-Temperature Performance Enhancer

Primarily used in tires, conveyor belts, seals, and RTI to boost strength and wear resistance under demanding conditions.

Functions as pigment for polyethylene, polypropylene, and PVC plastics, providing uniform black coloration.

In construction, serves as a binder in high-temperature mixtures for stoves and fireplaces, combining thermal stability with mechanical integrity.

# P701: Enhancing Pigmentation and Rubber Properties



## Pigmentation Excellence

Delivers rich black color in paints, plastics, inks, coatings, and building materials, including blackened concrete applications.



## Rubber Reinforcement

Acts as a reinforcing additive improving strength and durability in rubber products, particularly tires.



## Versatile Industrial Use

Widely used across various sectors, including printing and paper industries, enhancing both appearance and material performance.



## Enhanced Product Quality

Improves end-product properties notably in coatings and plastics by combining pigment depth with physical reinforcement.

# T900: Low-Activity Filler for Industry Needs

T900 provides a low-activity filler option mostly for tires, RTI, conveyor belts, and plastics, optimizing processability and wear resistance for less demanding rubber compounds.

It also functions as a black pigment and concrete reinforcement in paints, varnishes, building mixes, and electrical cable insulation, enhancing product strength and appearance.



# P805E: Specialized Conductive and Antistatic Applications

Used to manufacture electrically conductive and antistatic materials such as carbon fibers and composites, essential for advanced composites.

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Imparts electrical conductivity to polymers like ABS, supporting the production of antistatic rubbers and conductive plastics.

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Serves as filler for electrodes and carbon-carbon composites, vital for thermal insulation and specialized electrical components.



# P805S: Multifunctional Pigmentation and Reinforcement



## Strength and Color in Rubber and Tires

P805S enhances strength in rubbers and tires, boosting durability while delivering deep black pigmentation for superior product aesthetics.



## Plastic and Coating Enhancement

Used in plastics for coloring and UV protection, it also enhances paint, varnish, and printing ink formulations with vivid black tones.



## Building Materials and Polymers

In construction, P805S colors concrete, paving slabs, artificial stone, and other polymer composites, improving both strength and appearance.

# P365: Enhancing Color Stability and Durability

- 1 P365 improves color richness and UV resistance in plastics, while adjusting coating blackness and enhancing opacity for durable finishes.
- 2 Widely applied in tire manufacturing, pressure pipes, films, fibers, and water-based printing inks, especially in producing large off-road tire breakers with superior durability.



# Medium coloring strength


ensures consistent and appealing shades in varied applications.

JSC Ivanovo Technocarbon and Rubber Product Data

P355 is widely employed to produce uniform coloration and defined shades in paints, varnishes, water-based inks, and rubber products requiring reliable color consistency.

# Easy Dispersion Grades: P803R and P803 Iodine 21

Grade	Dispersion Ease	Structural Characteristics	Primary Uses
P803R	High	Low	Paints, Plastics, Special Applications
P803 Iodine 21	High	Low	Paints, Plastics, Special Applications



Comparing properties and applications of P803R and P803 Iodine 21 specialized for easy dispersion in paints and plastics.

Both grades offer exceptional dispersion and unique color properties suitable for demanding applications requiring color precision.

# N550: Balancing Strength and Processability



## Applications in Tire and RTI Production

N550 is utilized for tire components including body, sidewalls, and cords, and in RTI products like hoses and seals. It enhances extrusion processes, improving quality and durability.



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## Uses in Construction and Coating Industries

In construction, N550 acts as a pigment in tile and stone mixtures. It also supports paint and varnish industries by balancing product strength and workability, optimizing manufacturing outcomes.



# N660, N650: Elasticity for Extruded Rubber Products

1 N660 offers a balanced combination of reinforcement, wear resistance, elasticity, and recyclability, ideal for RTI, conveyor belts, window profiles, cables, and polymer dyes.

2 N650 specializes in extrusion-formed RTI products like tires, seals, and hoses, providing high elasticity, smooth surface finish, and improved dynamic performance.

3 N660 supports applications requiring durable rubber compounds with good surface quality and elasticity without extreme reinforcement demands.

4 N650 also enhances pigmentation in paints and plastics while contributing electrical conductivity for advanced material performance.

# N772, N774, N765, N762: Applications in Extruded and Molded Goods

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Summary of distinct applications for N772, N774, N765, and N762 grades across extruded and molded products, highlighting material compatibility and benefits.

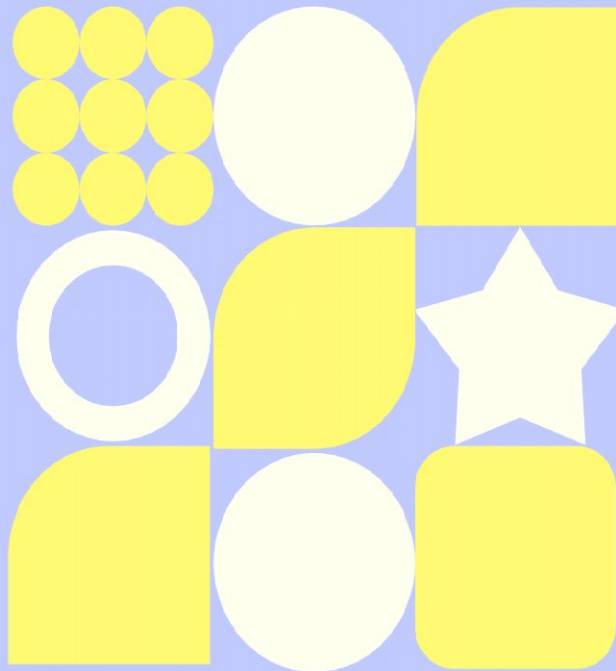
Each grade targets specific product types, optimizing mechanical strength, elasticity, and pigmentation for industrial uses.

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Grade	Key Applications
N772	Extruded belts, hoses, plastics
N774	Extruded products, belts, molded goods
N765	Tires, molded RTI, cable rubbers, paving
N762	Hoses, seals, superconcentrates; enhances mechanical and conductive properties

## Обзор ассортимента технического углерода АО «Ивановский техуглерод и резина»



АО «Ивановский техуглерод и резина»  
выпускает широкий спектр марок  
технического углерода для различных  
отраслей.

and heavy-duty industrial parts.

# ment in Rubber and

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## Optimizing Plastic Composites for Performance

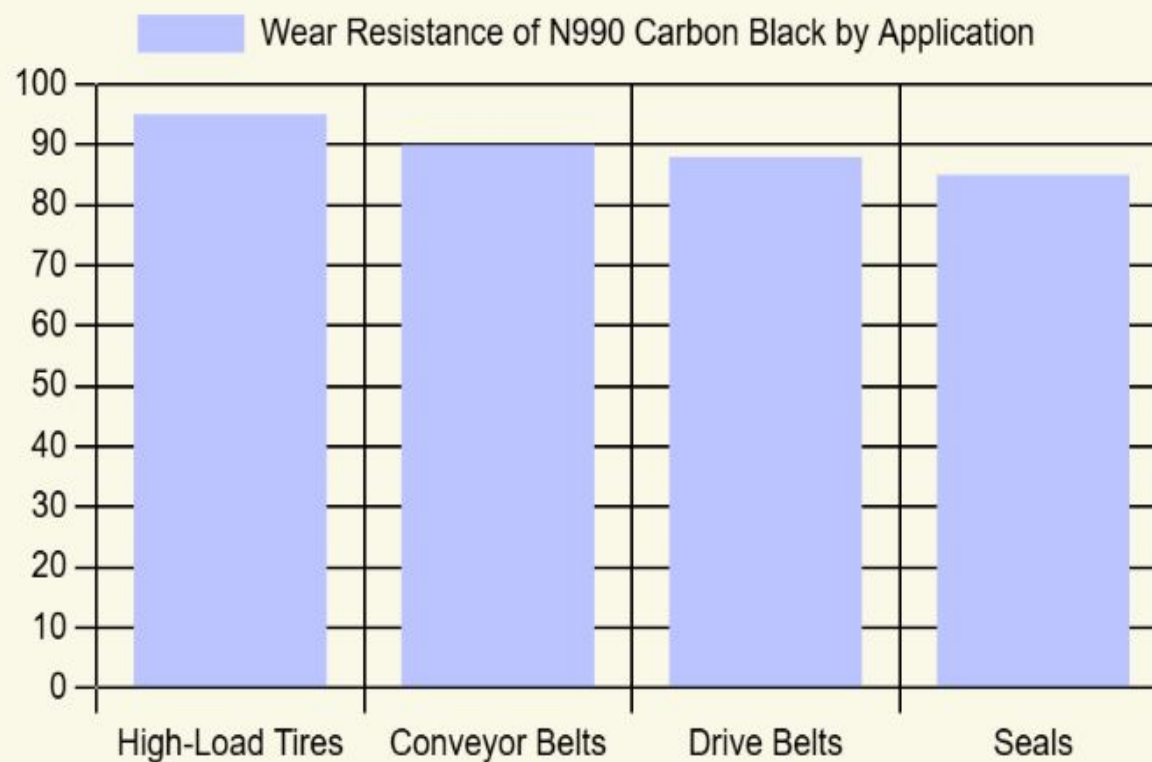
In plastic composites, N787 improves  
durability and structural integrity, extending  
material performance in demanding  
environments such as automotive  
components and specialized industrial  
equipment.



# Reinforcement and Wear Resistance in N990 Carbon Black

N990 excels in applications requiring superior wear resistance, maintaining performance in antistatic products, cable insulation, and UV-protective plastics.

The data highlights N990's critical role in enhancing durability and longevity of high-stress rubber products, supporting specialized industrial needs.



# N991: Advanced and High-Temperature Applications

N991 serves diverse industries by providing reinforcement in plastics, shrink wrap, connectors, wires, and cables, integrating effectively into insulating and fire-resistant materials.

Its exceptional thermal stability and insulating properties make it indispensable in aerospace, ceramics, adhesives, aircraft brakes, magnetic media, and high-temperature composites.



# Summary of Specialized and Multifunctional Grades

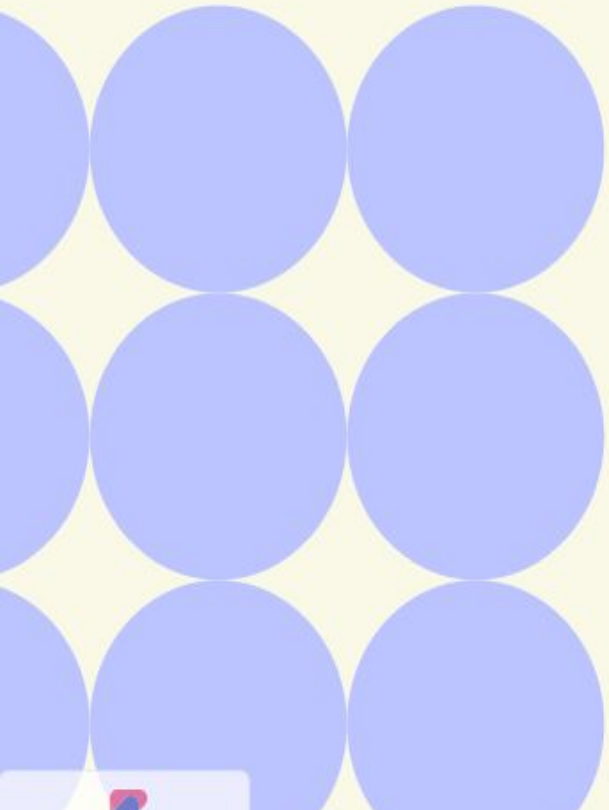
Certain grades enhance UV protection and electrical conductivity, crucial for plastics and rubber products exposed to environmental and functional stresses.



Easy dispersion carbon blacks improve color uniformity and process efficiency in paints and plastics, offering manufacturers precise pigment control.



High-strength reinforcing grades deliver mechanical durability and elasticity, supporting demanding applications in automotive, construction, and industrial sectors.





# **Ivanovo's Comprehensive Carbon Black Solutions Drive Industry Leadership**

JSC Ivanovo Technocarbon and Rubber offers an extensive carbon black portfolio tailored to diverse industrial requirements, fostering innovation and reinforcing its market-leading position through continuous product development.

