



# Commodities Trade CATALOG



# INDEX



**BTC Consultant Co., Ltd**



**ExportPro**

CONNECTING THE WORLD

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# SUGAR





# ICUMSA 45

ICUMSA 45 sugar is the highest quality sugar available on the market today. It is a highly refined white sugar suitable for human consumption and for use in a wide range of food applications. It is perpetually in high demand as it is the safest form of sugar, due to the fact that the refining process by which it is created removes bacteria and contaminant often present in raw sugars.



## SPECIFICATIONS

ORIGIN	BRAZIL
ICUMSA	45 ICUMSA
Ash content	0.04% Maximum by Weight
Moisture	0.04% Maximum by Weight
Particlas magnéticas / Magnetic Particles	4mg/kg
Solubility	100% DRY & Free Flowing
Granulation	Fine Standard
Polarization	99,80° Minimum
Max AS	1 P.P.M.
Max OS	2 P.P.M.
Max CU	3 P.P.M.
Colour	Crystal White
Sediments	NONE
Radiation	Normal w/o presence of cesium or iodine S02: Certified
SO2	70 mg/kg maximum

# ICUMSA 150

ICUMSA 150 white cane sugar is also called white crystal sugar, for med by the crystallization process without chemical refining. It is widely used because it contains less chemical substance. It is more readily available and is a lower cost replacement for the traditional refined white sugar ICUMSA 45. ICUMSA 150 white sugar is often used in large-scale cooking, beverage manufacturing and production of other food products.



## SPECIFICATIONS

ORIGIN	BRAZIL
ICUMSA	150 RBU ICUMSA
Ash content	0.10% Maximum by Weight
Moisture	0.10% Maximum by Weight
Solubility	100% DRY & Free Flowing
Granulation	Fine Standard
Polarization	99.50° Minimum
Colour	Sparkling white
Sediments	NONE
SO2	70 mg/kg maximum
Radiation	Normal internationally accepted limit w/o presence of cesium or iodine SO2: Certified
Substance	Solid, crystal
Smell	Free from unusual or abnormal smells
Crop	Recent Crop
SO2	70 MG/KG MAXIMUM

# ICUMSA 600-1200

ICUMSA 600-1200 is 100% raw refined sugar, produced after the first crystallisation of sugar cane. Raw sugar is coarser than white sugar and is brown in colour. Raw brown cane sugar, when fully refined, produces about 70% white sugar. More molasses is found in natural brown sugar, which gives it a more rewarding mineral.



## SPECIFICATIONS

ORIGIN	BRAZIL
ICUMSA	600 - 1200 RBU ICUMSA
Ash content	0.15% Maximum by Weight
Moisture	0.15% Maximum by Weight
Magnetic Particles	10mg/kg
Solubility	95% DRY & Free Flowing
Granulation	0,6 mm of regular square (medium size)
Polarization	97,8 to 99,2°
Max AS	1 P.P.M.
Max OS	2 P.P.M.
Max CU	3 P.P.M.
Colour	Brown (Color depends on number - higher number more dark)
Sediments	NONE
SO2	120 mg/kg maximum
Radiation	Normal internationally accepted limit w/o presence of cesium or iodine 502: Certified
Substance Structure	Solid Brown Crystal
Smell	Free from unusual abnormal smell
HPN STAPHAUREUS	NIL

# Acetate oil



# Crude degummed Rapeseed Oil

Rapeseeds are pressed and then the material after pressing is extracted with solvent. Crude rapeseed oils are purified by decantation and centrifugation.

Usage: Crude degummed rapeseed oil is used for different industrial purposes

Transport: The road/railtanks must be obviously suitable for the purpose and must be clean and dry.

Storage: In clean, dry tanks, protected from direct sunlight and heat sources.

Shelf Life: 12 month from production.

Certification: TÜV Certificate ISO 9001:2008 / TÜV Proof for HACCP / ISCC (International Sustainability and Carbon Certification)

Packaging: Bulk

GMO declaration: Free from Genetically Modified Organisms (GMO).



## SPECIFICATIONS

Commodity	Rapeseed Crude Oil
Appearance	Grade A
Total Arsenic (As)	0.1 mg/kg
Lead (Pb)	0.1 mg/kg
Aflatoxin B1	8 ug/kg
Benzopyrene	8 ug/kg
Terbutylhydroquinone (TBHQ)	0.2 g/kg
Butyl Hydroxy Anisd (BHA)	0.2 g/kg
Butylated hydroxytoluene (BHT)	0.2 g/kg
Diocetyl Phthalate (DEHP)	1.5 mg/kg
Diisononyl Phthalate (DINP)	9.0 mg/kg
Dibutyl Phthalate (DBP)	0.3 mg/kg
Chloromequat Chloride	0.1 mg/kg
Penthiopyrad	1 mg/kg
Glufosinate-ammonium	0.05 mg/kg
Clethodim	0.5 mg/kg
Chlordan	0.05 mg/kg
Phosphorus	250 PPM
Acid Value (KOH)	3.0 mg KOH/g
Peroxide Value	6.0 mmol/kg
Insoluble impurities	0.10 %
Solvent Residue	10 mg/kg
Erucic Acid	2.0 %
Density	0.925 kg/L



# Crude Sunflower Oil

ICI Name Helianthus Annuus Seed Oil  
 CTFA Name CAS Number Sunflower Seed Oil Oil8001-21-6



## SPECIFICATIONS

TECHNICAL DATA	UNITS	SPECIFICATION
FFA / Acidez	%	<3
Moisture and Volatile Matter	%	<0.10
Hexane Impurities	%	<1
Colour	Lovibond	<80Y+6R
Refractive Index	(20°C)	1.473-1.477
Iodine Value	gI <sub>2</sub> /100g	118-137
Density	g/cm <sup>3</sup> (20°C)	0.916-0.922
Acetone Insoluble	%	<0.70
Hexane Contents	ppm	<300

CARBON NUMBER	FATTY ACID	SPECIFICATION (%)
-14	MYRISTIC	<0.1
-16	PALMITIC	3.5-8
-16:1	PALMITOLEIC	<0.2
-18	STEARIC	3-7
-18:1	OLEIC	15-85
-18:2	LINOLEIC	5-72
-18:3	LINOLEIC	<0.2
-20	ARACHIDIC	<0.6
-22	BEHENIC	<1

### Packaging (Net Weight)

Bulk. Other packaging please consult

### Storage

Light protected, not above room temperature, in original closed packaging.

# Crude Soybean Oil

Product obtained by heat treatment, crushed, dehulled and conditioned non GMO soybean, which is pressed. Oil is released of sediment through sedimentation and filtering in frame filter press, and then oil is stored.

Ingredients: Soybean 100%

Terms of use: Product for further processing as a feedstock in the manufacture of ready-made mixtures for animal feeding, as well as raw materials in paint and varnish industry, and in biodiesel production.

Storage conditions:

It is recommended to store in tanks where product will not be in contact with moisture and high temperature and where will be protected from entry of rodents, insects, birds and other animals.

Shelf life: 12 months

Packaging: Bulk

Complies with applicable standard and EU regulations. Legal provisions and relevant standard GMP+B2(2010), GMP +BA1, GMP +BA4, requirements (EU R 68/2013, 767/2009, EU R 1829/2003, 574/2011, 744/2012, 1275/2013, 277/2012), customer requirements

BSE/TSE statement: Product doesn't contain ingredients with animal origin

Traceability: Established in all phases of production, storage and transportation of ingredient and final product.

Product safety status: Product is safe for labelled intended use. Safety Data Sheet available on request.



## SPECIFICATIONS

### Other substances:

#### Pesticides

Alfa isomer	max 0,2mg/kg
Beta isomer	max 0,1mg/kg
Gama isomer(lindan)	max 2,0 mg/kg
Hexachlorobenzene( HCB)	max 0,2mg/kg
Endrin(sum of endrin anddeltaketo-endrin)	max 0,05mg/kg
Endosulfan(sum of alf and beta isomers and of endosulfansulfate)	max 1,0mg/kg
DDT(sum of DDT, DDD and DDE –isomers)	max 0,5mg/kg
Clethodim	10 mg/kg
Thifensulfuron-methyl	0,05 mg/kg
Bentazone	0,1 mg/kg

#### Fatty acid composition (%m/m)

C16:0	10,2- 13,6
C18:0	4,5-7,1
C18:1	21,2-23,25
C18:2	46,3-53,28
C18:3	8,3-9,0
C 20:0	2,2
C 20:1	0,3-0,6
Saturatedfatty acids	14,72-22,9
Monounsaturated fatty acids	21,8-23,65
Polyunsaturated fatty acids	55,3-61,61

#### Organoleptic characteristics

Color	Characteristic, yellow-brown
Smell	Pleasant and characteristic for soybean oil, without unusual odour and without odour typical for rancidity
Taste	Without unusual taste and without taste typical for rancidity

#### Chemical characteristics

Moisture	0,03-0,1 %
Insoluble impurities	0,04-0,07 %
Free fatty acid content-acidity	0,84-1,31 % oleic acid
Peroxide value	1,99 mmol/kg
Relative density (x0C/watert 20 C)	0,922 (x=20 C)
Refractive index (nDx0C)	1,473-1,474 (x=20 C)
Saponification value	190-191 mg KOH/g
Iodine value	122-134 g/100g
Unsaponifiablematter	0,44-0,51%
Phosphorus	0,025-0,0758%
Phosphatides	0,63-1,9 %
Flashpointlimits test at 1210C	no flash
GMO	<0,9%
Dioxin	0,5-0,75 ng/kg
Sum of dioxinsand dioxin like PCB	max 1,5 ng/kg
Dioxin like PCB	max 0,5 ng/kg
Hydrocarbons(C10-C40)	400 mg/kg
Polycyclic Aromatic Hydrocarbons (PAH)	160-200 µg/kg

# Refined Rapeseed Oil

## USES

Raw material for industrial use in the manufacture of foodstuffs and cosmetic products.

## Stability and storage:

Store in well-filled and closed containers in a cool, dry place away from light. After 24 months of storage, the quality should be checked before use. Inert with nitrogen.



## SPECIFICATIONS

Appearance at 20°C	Somewhat viscous liquid transparent
Colour	Pale Yellow
Odour – Flavour	Practically odourless
Density at 20°C	0,910 – 0,930
Density 25/25	–
Refraction Index nD20	1,4720 – 1,4740
Refraction Index nD25	–
Optical rotation (°C)	–
Boiling point (°C)	–
Melting point (°C)	–
Flash point (°C)	310,00
Richness (% GC)	Oleic Acid: 50-70% Linoleic Acid: 15-30%
Acidity (mg KOH/g)	<0,2
Solubility	Insoluble in water
Vapor pressure	Not determined
Other solubilities	Ethanol soluble

# Refined Sunflower Oil

A liquid oil suitable for baking and frying. For use in diet margarine, or bottled as a general purpose oil. Especially for products high in polyunsaturated fatty acids.

**Appearance:** Clear and brilliant at room temperature

**Texture:** Liquid at 200C

**Taste –Smell:** Neuter (panel text)

**Colour:** Pale yellow (Max. 1.5 red, 15 yell

**Impurities:** Negative

**Cold test:** Negative after 24 hours at 0°C

**Shelf-life:** 24 months from date of manufacture



## SPECIFICATIONS

### CHEMICAL AND PHYSICAL CHARACTERISTICS

Analysis	Norms	Methods
Specific gravity at 20°C (g/ml)	0.918–0.923*	NF ISO 6883
Refractive index (n <sup>40D</sup> )	1.461 – 1.468*	ISO 6320
	(Indicative)	
	ND	
Saponification value (KOH mg/1g)	188–194*	AOCS Cd 3a-94
Iodine Value (calculated)	118–141*	AOCS–Cd 1c - 85
Moisture(%)	< 0.07	NF ISO 662
Free fatty Acid as Oleic Acid (%)	< 0.1	NF EN ISO 660
Alkalinity (ppm)	< 5	NF EN ISO 10539
Peroxyde value (meg/Kg)		
Phosphoruscontent (ppm)	< 5	NFT 60 - 227

### AVERAGE NUTRITION FACTS

Per 100kg	
Energy	3700 KJ 900 KCal
Protein(g)	0
Carbohydrates (g)	0
Total Fat(g)	100
Saturated (g)	9-14
Mono unsaturated (g)	19-38
Polyunsaturated (g)	52-69
Cholesterol (mg)	ND
Additives	NONE

### FATTY ACID AND COMPOSITIONS

Fatty Acid	Carbon	Norms	Methods
Myristic	C14:0	< 0.2	
Palmitic	C16:0	5–7.6	
Palmitoleic	C16:1	< 0.3	
Stearic	C18:0	2.7–6.5	
Oleic	C18:1	14–39	
			Gas
Linoleic	C18:2	50–74	Chromatography
Linolenic	C18:3	<0.3	NFT EN ISO
Arachidic	C20:0	0.1–0.6	5508
Gadoleic	C22:0	< 0.3	
Behenic	C22:0	0.3–1.5	
Erucic	C22:1	<0.3	
Lignoceric	C24:0	<0.5	

### HEAVY METALS

Analysis	Unit	Norms	Methods
Iron (Fe)	Ppm	<1.5	NF EN ISO 8294
Copper (Cu)	Ppm	<0.1	NF EN ISO 8294
Lead (Pb)	Ppm	<0.1	NF EN ISO 12193
Arsenic (As)	Ppm	<0.1	

# Refined Soybean Oil



Description: Refined oil obtained by expression of the seeds of *Glycine soja* Sieb. and Zucc. and of *Glycinemax* L. Merr. (fam. Leguminosae).

Physical and Chemical Data: Clear, pale yellow liquid. Practically insoluble in 96 per cent ethanol, miscible with petroleum ether (boiling point 50°C to 70°C). Density: 0.916-0.925g/ml. Refractive index: 1.4710-1.4750.

**No additives.**

Properties and uses: The oil contains a high percentage of linoleic acid (50-57%), less oleic acid (17-26 %), and even less linolenic acid (5-10 %) and palmitic acid (9-13 %). The oil content of the seed is about 18 %. It is an emollient agent and it is used topically for the treatment of extremely dry skin. It is also used in the preparation of soaps for dry skin and as an excipient to protect the active ingredients from oxidation in the formulation of hard gelatine capsules.

Due to its high content of triglycerides of unsaturated fatty acids, it is used in food supplements for patients with hypercholesterolaemia (particularly after acute myocardial infarction) and in lactose-free soya milks.

Contraindications: Allergy to soya or milk proteins. Infants with enteropathy or enterocolitis induced by milk protein.

Incompatibilities: Metals such as copper and iron, calcium chloride, calcium gluconate, magnesium chloride, phenytoin sodium, tetracycline hydrochloride, and amphotericin B.

Storage: In tightly closed containers. PROTECT FROM LIGHT

**SOY**



# Soy

GRDE# 2

GMO

fit for human  
consumption

## SPECIFICATIONS

<b>ORIGIN</b>	BRAZIL
<b>Moisture</b>	Content MAX 14.0%
<b>Organoleptic</b>	Clean & Bright Appearance Natural Odor
<b>Heat Damaged Beans</b>	MAX 0,5%
<b>Total Damaged Beans</b>	MAX 3,0%
<b>Protein Percentage</b>	35,0 %
<b>Foreign Material</b>	2,0 %
<b>Split Beans</b>	MAX 20,0%
<b>Other Color Beans</b>	MAX 2,0%
<b>Livel Insects</b>	None
<b>Corp Year</b>	2020 / 2021
<b>DISCOLORED SEEDS</b>	MAX 2,0%
<b>DELIVERY</b>	Within 30 -45 Days from receipt of acceptable financial instrument
<b>THE SEED</b>	Chemicals and Inspected Poisonous Phytosanitary Certificate SEED / HUS KS: Of no radiation, No Virus, Insect Parts, No Poisonous Matter and non genetic and is suitable for human consumption.

# Soy

suitable

for human  
consumption

# GRDE #2 Non GMO

## SPECIFICATIONS

<b>QUALITY</b>	Standard Export Quality
<b>Based on following specifications</b>	
<b>Grade</b>	# NON GMO
<b>Test weight</b>	54 Pounds per bushel, min
<b>Protein</b>	MIN 35,0%
<b>Moisture</b>	MAX13,5%
<b>Foreign material</b>	MAX 2,0%
<b>Oil content</b>	MIN 18,5%
<b>Splits</b>	MAX 20,0%
<b>Total damage</b>	4,0%
<b>Kernels</b>	MAX 3,0%
<b>Free fatty acids</b>	MAX 1,0%
<b>Discolored seeds</b>	MAX 2,0%
<b>DELIVERY</b>	Within 30 -45 Days from receipt of acceptable financial instrument

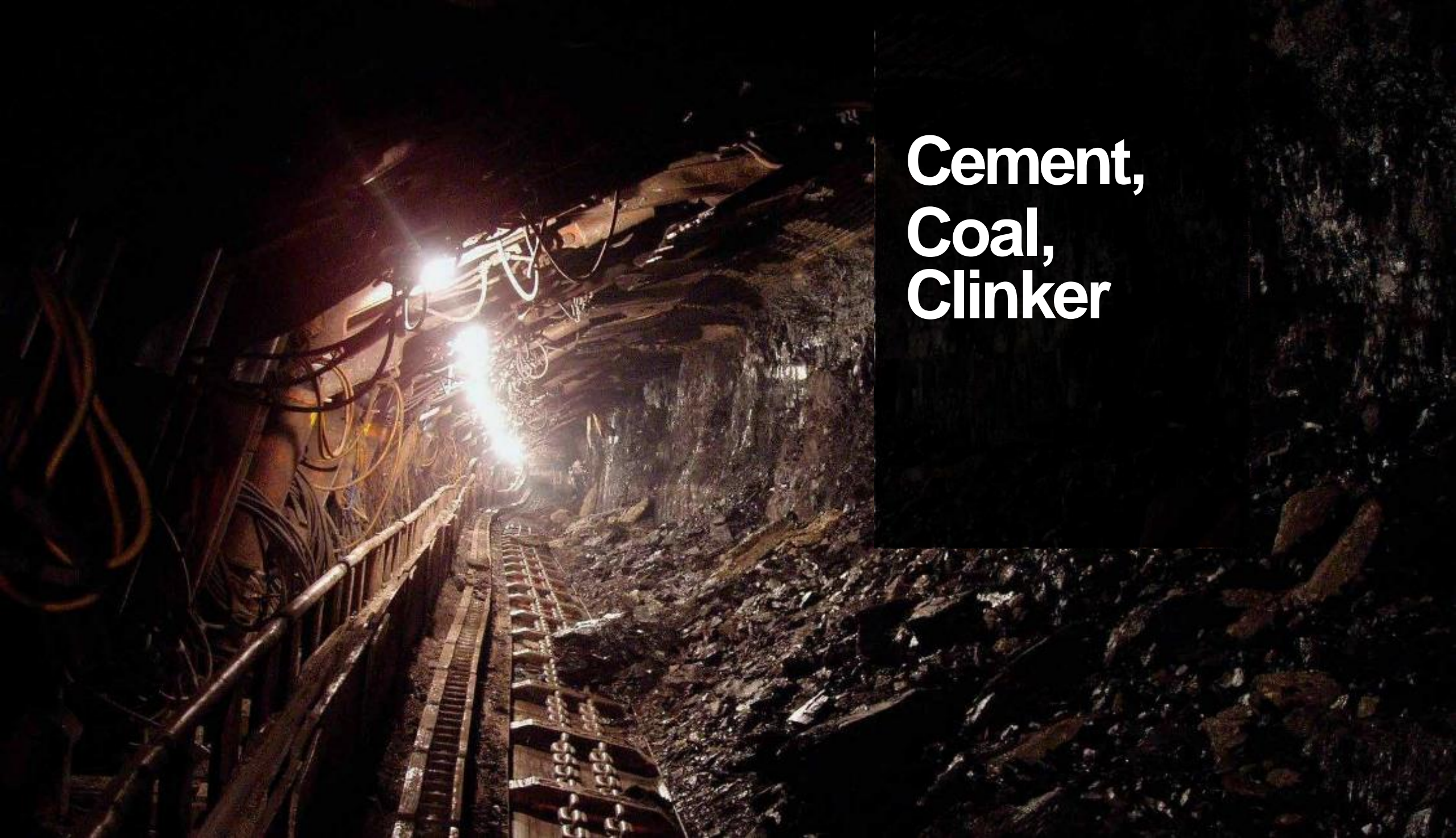


**Soy**  
for human  
consumption

**GRDE**  
**#GMO**

## SPECIFICATIONS

<b>Conformity system</b>	ISO 22000-22001-HACCP
<b>Quality parameter</b>	GOST 28672-90 Measure
<b>Protein</b>	34% MIN
<b>Moisture</b>	14% Maximum by Weight
<b>Foreign material</b>	1% MAX
<b>Oil content</b>	18% MIN
<b>Test weight</b>	56 LBS/BUHEL
<b>Fatty content</b>	20% APPROX.
<b>Splits</b>	11% MAX
<b>Total damage kernels</b>	2% MAX
<b>Radiation none heated</b>	
<b>Genetic modification (GMO)</b>	NEGATIVE TO 99.1%



**Cement,  
Coal,  
Clinker**

# Cement

## SPECIFICATIONS

### EN 197-CEM 1 I -BL 32.5 N

#### Chemical composition

<b>Silicon Dioxide</b>	SiO <sub>2</sub>	15.45%
<b>Aluminum Oxide</b>	Al <sub>2</sub> O <sub>3</sub>	4.72%
<b>Ferric Oxide</b>	Fe <sub>2</sub> O <sub>3</sub>	3.069%
<b>Calcium Oxide</b>	CaO	67.76%
<b>Magnesium Oxide (max 5.0)</b>	MgO	0.17%
<b>Sulfur Trioxide (Max4.0)</b>	SO <sub>3</sub>	2.71%
<b>Chloride &lt; 0.10</b>	CL-<0.1	0.02%
<b>Insoluble residue (max5.0)</b>	I.R.	0.54%
<b>Loss on ignition</b>	L.O.I.	13.22%
<b>Free-Lime &lt;2</b>	F-CaO <2	1.2%
<b>Chromium hexavalent (max 2.0)</b>	Cr VI <2	1.3 ppm

#### Physis composition

<b>Fineness (Blaine)</b>	Cm <sup>2</sup> /g	4875
<b>Water consistency</b>	%	27%
<b>Initial setting time</b>	Minutes	117 min
<b>Final setting time</b>	Minutes	177 min
<b>7 Day flexural</b>	MPa	6.1
<b>7 Day (CompressiveStrenght)</b>	MPa	32.1.6
<b>28 Day flexural</b>	MPa	7.7
<b>28 Day (CompressiveStrenght)</b>	MPa	43
<b>Soundness</b>	mm	1.5

# Cement

## SPECIFICATIONS

### EN 197-CEM 1 42.5

#### Chemical composition

<b>Silicon Dioxide</b>	SiO <sub>2</sub>	19.60%
<b>Aluminum Oxide</b>	Al <sub>2</sub> O <sub>3</sub>	5.38%
<b>Ferric Oxide</b>	Fe <sub>2</sub> O <sub>3</sub>	3.49%
<b>Calcium Oxide</b>	CaO	63.58%
<b>Magnesium Oxide (max4.0)</b>	MgO	1.19%
<b>Sulfur Trioxide (Max4.0)</b>	SO <sub>3</sub>	2.3%
<b>Chloride &lt; 0.10</b>	CL-<0.1	0.05%
<b>Loss on ignition</b>	L.O.I.	4.25%
<b>Insoluble residue (max5.0)</b>	I.R.	0.54%
<b>Free-Lime &lt;2</b>	F-CaO <2	1.2%
<b>Chromium hexavalent (max 2.0)</b>	Cr VI <2	1.3 ppm
<b>Alkali equivalent</b>	Na <sub>2</sub> O	0.60

#### Physis composition

<b>Fineness (Blaine)</b>	Cm <sup>2</sup> /g	3079
<b>Water consistency</b>	%	27%
<b>Initial setting time</b>	Minutes	125 min
<b>Final setting time</b>	Minutes	185 min
<b>2 Day (compressivestrength)</b>	MPa	22.6
<b>28 Day (compressivestrength)</b>	MPa	48.6
<b>Soundness</b>	mm	1.0

# Cement

## SPECIFICATIONS

### EN 197-CEM 1 52.5 N

#### Chemical composition

Silicon Dioxide	SiO <sub>2</sub>	21.02%
Aluminum Oxide	AL <sub>2</sub> O <sub>3</sub>	6.11%
Ferric Oxide	Fe <sub>2</sub> O <sub>3</sub>	3.89%
Calcium Oxide	CaO	65.78%
Magnesium Oxide	MgO	0.99%
Sulfur Trioxide	SO <sub>3</sub>	0.80%
Chloride	CL-<0.1	0.048%
Loss on ignition	L.O.I.	0.28%
Insoluble residue	I.R.	0.3%
Free-Lime	F-CaO <2	1.2%
Chromium hexavalent	Cr VI <2	1.0 ppm

#### Modules

Lime saturation Factor	LSF	94.15
Silica Modulus	SM	2.1
Alumina Modulus	AM	1.57

#### Phase composition

Calcium Silicate	C <sub>3</sub> S > 52	54.19%
Calcium Silicate	C <sub>2</sub> S	19.41%
Calcium Aluminate	C <sub>3</sub> A	19.41%
Tetra Calcium Aluminum Ferrite	C <sub>4</sub> AF	11.83%

The image shows a close-up, top-down view of a large pile of coal. The coal pieces are dark grey to black, with a rough, crystalline texture. They vary in size and shape, with many appearing as angular, blocky fragments. The lighting is somewhat uneven, highlighting the jagged edges and the layered structure of the coal. A semi-transparent black rectangular box is overlaid on the right side of the image, containing the text "Top Grade Coal" in a white, sans-serif font.

**Top  
Grade  
Coal**

# Coal

## SPECIFICATIONS

### Actual Quality analyses results

**T-grade coal /0-50 mm/Ash 15.5% max**

Net calorific value (as received) 6021 Kcal/kg

Basis Reported	Moisture %	Ash %	Material Volatile Matter %	Total Sulfur %	Gross calorific value (Kcal/kg)
Tal como se recibe As received	10.9	11.7	17.1	0.34	6294
Dry		13.1	20.3	0.39	7064
Dry ash free			24.8		8129
<b>Top Size (mm)</b>		<b>50+</b>	<b>13-50</b>	<b>0-13</b>	
Coal		2.9	27.8	69.3	

### Quality specifications

<b>Total Moisture</b>	<b>ARB</b>	<b>13.5 % MAX</b>
<b>Ash Content</b>	ARB	15.5% max
<b>Volatile Matter</b>	ARB	11-17.5%
<b>Sulphur Content</b>	<b>Dry basis</b>	0.8% max
<b>Chlorine</b>	<b>Dry basis</b>	0.02% max
<b>CV NAR</b>	ARB	6000 min
<b>HGI</b>		55 min
<b>Size</b>		0-50 mm

<b>Override</b>	<b>7 % MAX</b>
<b>Size 0 - 1 mm</b>	50% max

# Coal

## SPECIFICATIONS

### Actual Quality analyses results

**SS-grade coal /0-50 mm/Ash 15.5% max**

**Net calorific value (as received) 6060 Kcal/kg**

Basis Reported	Moisture %	Ash %	Volatile Matter %	Total Sulfur %	Gross calorific value (Kcal/kg)
Tal como se recibe As received	8.1	13.7	25.4	0.28	6294
Sec Dry		14.9	27.7	0.31	6846
Dry ash free			32.5		8045
<b>Top Size (mm)</b>		<b>100+</b>	<b>50-100</b>	<b>0-50</b>	
Coal		0.0	6.2	93.8	

### Quality specifications

Total Moisture	ARB	10 % MAX
Contenido en cenizas Ash Content	ARB	15% max
Volatile Matter	ARB	18-26%
Sulphur Content	ARB	0.6% max
Chlorine	ARB	0.12% max
CV NAR	ARB	6000 min
HGI		50 min
Size		0-50 mm

Override	5 % MAX
Size 0-1 mm	20% max



# Coal

## SPECIFICATIONS

### Actual Quality analyses results

#### SS-grade coal /0-50 mm/Ash 10%max

Net calorific value (as received) 6632 Kcal/kg

Basis Reported	Moisture%	Ash%	Volatile Matter %	Total Sulfur %	Gross calorific value (Kcal/kg)
As received	8.8	8.2	23.3	0.27	6878
Dry		9.0	25.5	0.29	7543
Dry ash free			28.0		8284

### Quality specifications

Total Moisture	ARB	10 % MAX
Ash Content	ARB	10% max
Volatile Matter	ARB	18-26%
Sulphur Content	ARB	0.6% max
Chlorine	ARB	0.1% max
CV NAR	ARB	6000 min
HGI		50 min
Size		0-50mm

Oversize	5 % MAX
Size 0-1 mm	20% max

The image shows a close-up, top-down view of a large quantity of clinker. The particles are numerous, small to medium-sized, and have an irregular, somewhat rounded shape. They are a uniform grey color with some darker and lighter variations, suggesting a mineral composition. The particles are densely packed together, filling the entire frame. In the upper right corner, there is a black rectangular overlay containing white text.

**Clinker**

**52.5**

# Clinker 52.5

## SPECIFICATIONS

### Chemical composition

<b>Silicon Dioxide</b>	SiO <sub>2</sub>	21.02%
<b>Aluminum Oxide</b>	AL <sub>2</sub> O <sub>3</sub>	6.11%
<b>Ferric Oxide</b>	Fe <sub>2</sub> O <sub>3</sub>	3.89%
<b>Calcium Oxide</b>	CaO	65.78%
<b>Magnesium Oxide</b>	MgO	0.99%
<b>Sulfur Trioxide</b>	SO <sub>3</sub>	0.80%
<b>Chloride</b>	CL-<0.1	0.048%
<b>Loss on ignition</b>	L.O.I.	0.28%
<b>Insoluble residue</b>	I.R.	0.3%
<b>Free-Lime</b>	F-CaO <2	1.2%
<b>Chromium hexavalent</b>	Cr VI <2	1.0 ppm

### Modules

<b>Lime saturation Factor</b>	LSF	94.15
<b>Silica Modulus</b>	SM	2.1
<b>Alumina Modulus</b>	AM	1.57

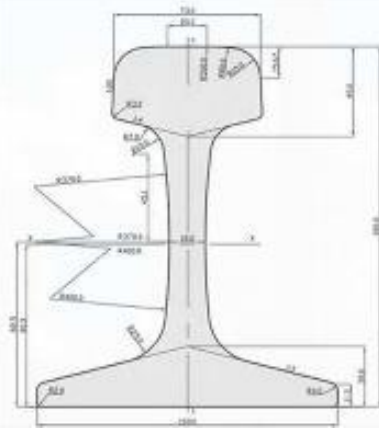
### Phase composition

<b>Lime saturation Factor</b>	LSF	94.15
<b>Silica Modulus</b>	SM	2.1
<b>Alumina Modulus</b>	AM	1.57

# Rails



## Railway - Second Quality - R 65 MTC



R65 COST 8165.75 WEIGHT 64.87 KG/METER

- e = 0.54 % \_ 0.82%
- Si = 0.18 \_ 0.40%
- MN = 0.60 \_ 1.05%
- S = 0.04% \_ MAX
- P = 0.035 % AS - 0.01 MIX OR MASS SHARE

### Dimensions:

Type of rail	Standard	Dimensionsmm					Section S	Mass/m
		H	B	e	D	E		
R65 (P65)	GOST P51685	Norma rush					cm <sup>2</sup>	kg/m
		180,00	150,00	73,00	45,00	18,00		

## Used Rails

We offer used rails for manufacturing and construction needs globally. Our rails are tested and reported by the highest inspection companies and affirmed to be free from any toxic or dangerous substances. There are granted local import certificates for our used rails to allow exporting them to wider markets and countries.

### USED RAILS R50/R65 SPECIFICATIONS

#### SPECIFICATIONS OF RAILWAYS: R50/R65:

- Second quality-railway used
- Rail steel no. 1. Standard section tee rails, original weight 50 poundsperyard, over heavier. - 120.50 M rails.
- Steel no. 2. Cropped rail ends, standardsection, original weight 50 pound peryard and over - 12.50 M eterslong.
- 28(B) (28c) rail – steel no.2 T – rail ends standard section – original weight 50 pounds per yard and over 12.50 Pounds per yard and over 12.50 Meters – rail, steel no.3, Standard section fee, gender, and / or guard rails, free from frog and switch rails not cut apart, and contain no manganese, cast, welds or attachment any kind except angle bars also rails, not found and without radiation and ex- plusive substance...
- 1.0m (1.0 – 1.5m)rail ferrous
- (R 50/ r65) chemicalcomposition shall be accordingto

#### Chemical Composition of Used Rails

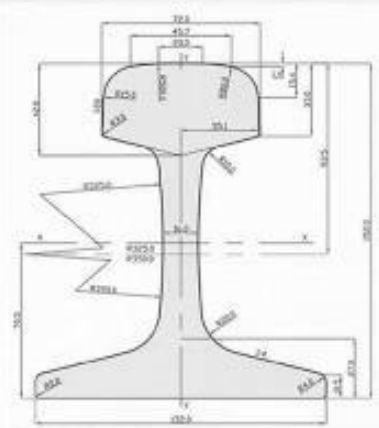
##### R65 GOST 8165.75WEIGHT 64.72KG /METER

- C =0.54 % \_ 0.82%
- Si =0.18 \_ 0.40%
- M N =0.60 \_ 1.05%
- S =0.04% \_ MAX
- P =0.035% AS - 0.01 MIX OF MASS SHARE

##### R50 GOST 7173.75WEIGHT 51.67KG /METER

- C =0.54 % \_ 0.82%
- Si =0.18 \_ 0.40%
- M N =0.60 \_ 1.05%
- S =0.04% \_ MAX
- P =0.035% AS - 0.01 MIX OF MASS SHARE

## Railway - Second Quality - R 50 MTC



R50 GOST 7173.75 WEIGHT 51.80 KG/METER

- e = 0.54 % \_ 0.82%
- Si = 0.18 \_ 0.40%
- MN = 0.60 \_ 1.05%
- S = 0.04% \_ MAX
- P = 0.035 % AS - 0.01 MIX OF MASS SHARE

### Dimensions:

Type of rail	Standard	Dimensionsmm					Section S	Mass/m
		H	B	e	D	E		
R50 (P/50)	GOST	Norma rush					cm <sup>2</sup>	kg/m
		152,00	132,00	12,00	42,00	160,00		

Rails can be delivered on the scale you need. Feel free to contact us for more information.

### Report of Chemical Analysis of Carbon Steel Using Spectrolab Machine ASTM E415

Name of Elements	Symbol	Test Result (% Average)	R65/R50 SPECIFICATI ON	Name of Elements	Symbol	(% Average)	R65/R50 SPECIFICATIO N
Carbon	e	0.60	0.54-0.82	Tungsten	w	<0.0002	....
Silicon	Si	0.37	0.18-0.40	Lead	Pb	<0.0002	....
Manganese	Mn	0.85	0.60-1.05	- Tin	Sn	0.004	....
Phosphorus	p	0.019	0.035	Arsenic	As	<0.0002	....
Suifer	s	0.013	0.04max	Calcium	Ca	<0.0000	.....
Chromium	Cr	0.015	.....	Antimony	Sb	<0.0004T	....
Molybdenum	Mo	<0.0000	.....	Boron	B	0.0006	....
Nickel	Ni	0.007	.....	Nitrogen	N	0.005	....
Aluminium	Al	0.0007	.....	Iron	Fe	97.9	....
Copper	cu	<0.0002	.....	Cobalt	Co	0.052	....
Niobium	Nb	0.025	.....	Vanadium	V	0.13	....
Titanium	Ti	0.003	.....	Cerium	Ce	<0.0001	....
Zirconium	Zr	<0.0001	.....	Bismuth	Bi	<0.0002	....
Silver	Ag	<0.0000	.....	Zinc	Zn	0.003	....



BTC Consultant Co., Ltd

