



**Azerbaijan  
Tekin  
Petroleum  
ind. co.**





تکین  
پترولیوم  
آذربایجان  
سهامی خاص



Product	استاندارد / Standard	محصول
Bitumen 50/70 & 60/70	ASTM 203/26501	قیر 60/70
Bitumen 70/100 & 85/100	ASTM 203/26501	قیر 85/100
Bitumen 200/300	ASTM 203/26501	قیر 200/300
-	203/26500	قیر PG 58-22
-	203/26500	قیر PG 64-16
Emulsion Bitumen CRS-1	ASTM - ISO - EN - INSO	قیر CRS-1
Bitumen MC-30	ASTM - ISO - EN - INSO	قیر MC-30
Bitumen MC-250	ASTM - ISO - EN - INSO	قیر MC-250

[www.atp-oil.com](http://www.atp-oil.com)

◆ نشانی دفتر مرکزی: تبریز، خیابان  
کریم خان، ۱۰ متری گلستان، پلاک ۳۵  
تلفن: ۳۱ ۲۷۳۸۳۱ - ۴۱ (۹۸+)  
فکس: ۳۰ ۲۷۳۸۳۰ - ۴۱ (۹۸+)  
E-mail: [atp@atp-oil.com](mailto:atp@atp-oil.com)

◆ نشانی کارخانه: هشترود، شهرک  
صنعتی پروفیسور هشترودی  
تلفن: ۲۵ ۳۵ ۶۲ ۵۲ - ۴۱ (۹۸+)  
فکس: ۲۴ ۳۵ ۶۲ ۵۲ - ۴۱ (۹۸+)  
E-mail: [atp@atp-oil.com](mailto:atp@atp-oil.com)



◆ Citation for Best Project in Industrial Sector, 2014

◆ Citation for Best Project in Industrial Sector 2013



◆ Best Project Award in Industrial Sector, 2014



◆ Best Project Award in Industrial Sector, 2013



1. Exporter (name address, country) نام و نشانی صادر کننده Exportateur ( nom, address, pays) - AZERBAIJAN TEKIN PETROLEUM REFINING IND. CO - Commercial ID: 10200456813 - Address: TABRIZ - IRAN BY ORDER: SANDRAMET TEJARAT CO. CODE:385680	2. شماره Number - Numéro 1802008170025 سریال Serial - en série CA5513848
3. Consignee ( name address, country ) نام و نشانی گیرنده Destinataire ( nom, adresse, pays) Consignee: AG IMPEX LLC - Address: CHARENC-AGARAK ARMENIA 22/12 CODE:09426423 - Destination Country: Armenia	<div style="text-align: center;"> <b>CERTIFICATE OF ORIGIN</b>  <b>CERTIFICAT D'ORIGINE</b> </div> 
4. Particulars of transport ( where required) مشخصات وسیله حمل Renseignements relatifs au transport (le cas échéant) On Ground. - TRUCK	

5. Marks & Numbers and kind of packages; Description of the goods Marques et numéros; Nombre et nature des colis; Désignation des 1 0 Bulk of petroleum bitumen [HS CODE: 2713 20]	وزن ناخالص GR.WT 23,330,0 Kg	وزن خالص NET.WT 23,330,0 Kg
	23,330,0 Kg	23,330,0 Kg

other information - Autres

ملاحظات

it is hereby certified that the above mentioned goods  
originate in :  
کواهی می‌نماید که کالای مرقوم از مبدا

  
**Mr. Jamshid Mirvar**  
Head of "Certificate Of Origin & Form A" Issuing Dep.



Stamp - Timbre - مهر

17 AUG 2020

Il est certifié par la présente que les marchandises  
mentionnées ci - dessus sont originaires de :  
IR IRAN  
CERTIFYING BODY اتاق بازرگانی، صنایع، معادن و کشاورزی ایران  
ORGANISME AYANT DELIVRE LE CERTIFICAT  
IRAN CHAMBER OF COMMERCE, INDUSTRIES, MINES and AGRICULTURE  
تاریخ و محل صدور  
place and date of issue - Lieu et date de delivrance  
2020/08/17 - Tabriz - East Azerbaijan - IRAN  
Authorised signature - Signature autorisée امضای مجاز



# Certificado

## CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

**1328-CPR-0812**

In compliance with Regulation (EU) no. 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

### **BITUMEN AND BITUMINOUS BINDERS**

according to the intended use and characteristics in the annex

produced by

**Azerbaijan Tekin Petroleum Refining Ind. Co**  
No.35 - Golestan Alley - karimkhan Ave - Valiasr st- tabriz - Iran

and produced in the manufacturing plant

**Azerbaijan Tekin Petroleum Refining Ind. Co**  
Professor Hashtroudi Industrial Complex – Hashtroud - Iran

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

**EN 12591:2009**

under system 2+ are applied and that the factory production control fulfils all the prescribed requirements set out above.

This certificate was first issued on 2020-05-18 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

Almada, 2020-05-18

Francisco Barroca  
General Manager



This Certificate includes one Annex with 1 (one) page

# CERTIFICATE

**AZERBAIJAN TEKIN PETROLEUM REFINING IND.CO**

Professor Hashtroudi Industrial Complex, Hashtroud, Iran. TEBRİZ

## ISO 9001:2015

**Heavy oil derivatives to produce fuel oils-paraffinic oils-bitumen asphaltenes**

This certificate is valid for 3 years on condition that surveillance audits are carried out before the period of each year in accordance with the accreditation rules. With this certificate, the holder of the certificate has been audited on the address mentioned above by TRB Certification Body in accordance with the condition and requirements of the license contract and it has been registered that the company satisfies the conditions of the standard. This certificate is valid as long as the certificate holder follows TRB certification rules and the certificate is seen as valid on [www.trb.com.de](http://www.trb.com.de) web site certificate inquiry section.

Certification	: DE/IR-QC-1080
Date of Issue	: 03.07.2022
Expiry Date	: 02.07.2023
Certification	: 3 Years (1.Year)
Printing Number	: 00



  
General Manager



Deutsche  
Akkreditierungsstelle  
D-ZM-19486-01-00



شماره ۵۶۲۱۴۹

ردیف دفتر ثبت

جمهوری اسلامی ایران  
قوة قضائیه - اداره مترجمین رسمی

دکتر نسرين حديدی تمجيد - مترجم رسمی زبان انگلیسی قوه قضائیه  
آدرس: ایران، تبریز، فلکه دانشگاه، برج بلو، طبقه ۱۰، واحد G، دارالترجمه نیما  
تلفن: ۲۲۲۷۹۳۶۹ - ۲۲۲۷۹۳۶۷ (۴۱) ۰۹۸ فاکس: ۲۲۲۷۹۳۷۰ (۴۱) ۰۹۸  
**Dr. Nasrin Hadidi Tamjid**  
Certified English Translator to Justice Administration of  
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Emblem

Islamic Republic of Iran  
Iranian National Standard Organization

License No. 6050168948

Issuance Date of the First License: 13 Dec., 2015

Date of Extension: -

### License for Application of Obligatory Standard Sign

Based on the amendment law of the rules and regulations of Iranian National Standard Organization approved in 1992 and in execution of the approvals made by the High Council of Standard and according to this license, **Azerbaijan Tekin Petroleum Refining Industries Company** is permitted to use the Iran's standard sign for the product of "Pure Bitumen Penetration Grade 60/70", under ..... trademark observing the national standard No. 12505 and related rules and regulations.

#### **Signature & Raised Seal:**

N. Pirouzbakht, For Head of Iranian National Standard Organization

The service or productive unit should take necessary actions for extending the license and updating the documents thirty days before its expiry date.

Address of the unit: Hashtrood

This license is valid for three years from its issuance date.

National ID.: 10200456813.

Deed No.: F/42/221-8

Revision No.: 3

Date of Revision: 27 Nov., 2011

*Translation of the attached document is accurate and the translator is competent to translate.*

Tabriz - IRAN

March 11, 2016

E.F.

صحت ترجمه فوق و برابری آن با اصل  
نابند می شود - مترجم رسمی دادگستری

صحت امضای خانم نسرين حديدی تمجيد مترجم رسمی  
قوة قضائیه گواهی می شود - قضای دادگستری تبریز



Only the authenticity of the seal and signature of the Official Translator is certified. This certification does not include confirmation of the accuracy of the translation or the authenticity of the translated document.  
Department of Official Translators  
of the Judiciary of the Islamic Republic of Iran



# Material Safety Data Sheet

No.: 60XX1005  
Rev No.: 01  
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## 1. MATERIAL AND COMPANY IDENTIFICATION

**Material Name** : Bitumen 60/70  
**Other names** : Asphalt  
**Product Use** : Road construction, paving, waterproofing, adhesives, coatings  
**Company** : Azerbaijan Tekin Petroleum Refining Ind. Co.,  
 PO Box 51577 – 47997,  
 Tabriz, Iran.  
**Emergency Telephone/Fax Numbers**  
 Tel: + 98 - 041- 33 27 38 33  
 + 98 - 041- 33 27 38 31  
 Fax: + 98 - 041- 33 27 38 30  
 Web Site: [www.atp-oil.com](http://www.atp-oil.com)

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration
Asphalt (Bitumen)	8052-42-4	100 %

## 3. HAZARDS IDENTIFICATION

**Appearance and Odor:** Black viscous liquid at high temperatures, solid at ambient temperatures.

### Safety Hazards:

Bitumen is normally handled at temperatures up to 160 °C. The major hazard is heat burns on skin in direct contact with hot bitumen. If bitumen is overheated, flammable decomposition products may be formed, resulting into fire and explosion. Boil over of tanks due to presence of water. In confined spaces, hydrogen sulfide may accumulate and reach hazardous levels. Pyrophoric deposits may develop in bitumen tanks which may self-ignite.

### Health Hazards:

**Routes of exposure:** Inhalation, ingestion, skin or eye contact.

### Skin Contact:

Severe thermal burns (up to third degree). Shock. Other than heat burns, the hazards associated with skin contact are negligible. Where long and physical contact with bitumen occurs, expert medical advice should be sought to the need of periodic skin examination and in case of any skin abnormality.

### Ingestion:

May cause gastric irritation

### Eye Contact:

May cause irritation

### Inhalation:

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Inhalation of vapors (generated at elevated temperatures) or oil mists can cause irritation to the nose and the throat as well as nausea. It is possible for hydrogen Sulphide to accumulate to lethal concentrations above hot bitumen in the vapor space of bulk storage tanks.

## 4. FIRST AID MEASURES

### Inhalation:

In case of problems due to excess fumes exposure, move victim to fresh air and provide oxygen if breathing is difficult. Get medical attention. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give 100% oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

### Skin Contact:

Burns from hot bitumen: remove heat by immediately treating/plunging the affected part with cold running water for 10 minutes. After cooling, NO attempt should be made to remove the bitumen adhering to the skin since the cold bitumen forms a sterile protective layer on the burnt area. If for any reason the bitumen must be removed, this can be done using slightly warmed medicinal paraffin. Seek medical assistance or hospitalization in all cases of serious burns.

### Eye Contact:

Flood eyes with plenty of water for at least 15 minutes, blinking as often as possible. Remove deposits around the eye, eyelashes and eyebrows by wiping carefully with a soft cloth soaked with medicinal paraffin oil. Do not force eyelids open. If irritation persists, obtain medical attention.

### Ingestion:

DO NOT induce vomiting, get medical advice. Give milk or water to drink. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Do not give anything by mouth to an unconscious person.

### First aid facilities

Eye wash fountains and safety showers should be available for emergency use

### Advice to Doctor

When it is absolutely necessary to remove adhering bitumen from the skin, liberal amounts of warm medicinal paraffin can be used. If solvent treatment is required, washing with soap and water and then the application of a proprietary re-fatting or skin cleansing cream should follow.

## 5. FIRE FIGHTING MEASURES

### Fire hazards

**CAUTION!** Product is Combustible. It will not burn unless preheated. Isolate from sources of heat, naked flames and sparks. The vapor pressure of this product is expected to be too low at ambient temperatures and pressures for the lower explosion limit to be reached. This product is a hazardous substance when heated beyond 100 °C. Petroleum products are flammable (explosive) in proportions between approximately 1% and 10% of vapor in air by volume at ambient temperatures and pressures. Earth and bond all process equipment including tanks and drums. Boil over of tanks may occur due to presence of water.

### Hazardous Combustion Products

If bitumen is over heated, decomposition products may be formed resulting into a fire or explosion hazard. H<sub>2</sub>S may be released if the product is heated, particularly in the presence of water. Pyrophoric deposits may develop in bitumen tanks which may self-ignite.

## Extinguishing Media

Use water fog, 'alcohol foam', dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames. Do not use water except as a fog. Do not use a direct stream of water.

## Additional Advice

Clear fire area of all non-emergency personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure, Self-contained breathing apparatus. Cool surrounding equipment, fire- exposed containers, pipelines and structures with water. Container areas exposed to direct flame contact should be cooled with large quantities of water to prevent weakening of container structure. Do not apply water directly.

## 6. ACCIDENTAL RELEASE MEASURES

### Protective Measures

CAUTION! Product is combustible. Eliminate all potential sources of ignition. Keep away from heat, naked flames and sparks. Stop leak if safe to do so. Wear appropriate personal protective equipment.

### Clean Up Methods

Contain residual material at affected sites to prevent material from entering sewers; ditches and waterways. Dike and contain land spills. For small spills, contain the spills with earth, sand or other absorbent. For large liquid spills, pump up excess liquid and absorb residue with earth, sand or other absorbent. Clean contaminated area with water and detergent.

### Additional Advice

Maritime spillages should be dealt with using Shipboard Oil Pollution Emergency Plan (SOPEP), as required by MARPOL Annex1 Regulation 26.

## 7. HANDLING AND STORAGE

### General Precautions

CAUTION! Combustible. Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Store in a well-ventilated area. Ground all handling equipment to prevent sparking. This product is a hazardous substance when heated above 100 °C.

### Handling

Avoid contact with eyes, skin, clothing and foodstuffs. Wash thoroughly after handling. Launder contaminated clothing prior to use; use good personal hygiene.

### Storage

Keep product away from ignition sources such as heat, sparks and flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors has dissipated. Store in a cool, dry and well-ventilated area. Keep containers closed at all times.

# Material Safety Data Sheet

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Material	Source	Type	ppm	mg/m3	Notation
Bitumen fume, as benzene soluble aerosol	ACGIH	TWA		0.5	
Bitumen fume, as benzene soluble aerosol	ACGIH	Notations			A4

### Engineering controls

Bulk storage tank ventilation is required due to the accumulation of fumes at operating conditions. Tanks, equipment and pipelines containing hot bitumen or heating medium, such as hot oil, should be adequately insulated to prevent accidental contact by personnel. Any surface that will reach a temperature of 70 °C must be insulated for personal protection. For personnel into confined spaces (e.g. bulk storage tanks), a proper confined space entry procedure must be followed, including ventilation and testing of tank atmosphere. Install eye washes and showers for emergency use.

Water should not be allowed into contact with hot bitumen.

### Protective Clothing:

Avoid contact with the skin and the eyes, and avoid breathing vapors or mists. Use chemical resistant gloves/gauntlets, boots, and apron. For spillage clean up use chemical resistant knee length boots. Where risk of splashing or in spillage clean up, use chemical resistant one-piece overall buttoned at neck and wrist, with an integral hood, of PVC.

### Respiratory Protection

If engineering controls do not maintain airborne concentrations to a level adequate to protect the worker's health, an approved cartridge respirator with a replaceable organic vapor filter must be worn. Types to be considered include supplied air respirator, air purifying respirator for organic vapors, and self-contained breathing apparatus for use in environments with unknown concentrations or emergency situations.

### Hand Protection

Materials should provide suitable chemical protection: impervious PVC, Neoprene or nitrile rubber. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, and dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.

### Eye Protection

Safety glasses with side shields or chemical splash goggles and/or full face shield to protect eyes and face if contact is likely. Provide an eye station in the area.

### Skin Protection

Chemically resistant impervious gloves, boots, suits and other items should preferably be PVC, Neoprene or Nitrile Rubber to be used. Safety showers should be available for use.

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## Work/Hygiene Practices

If contamination occurs, change clothing and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse. Ensure a high level of personal hygiene is maintained. Always wash hands before eating, drinking, smoking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Black viscous liquid at high temperatures, solid at ambient temperatures
Flash point, Cleveland COC	: 230 °C minimum.
Boiling point	: > 450 °C
Softening Point	: 43 - 51 °C
Penetration	: 60 – 70, 0.1 mm at 25 °C
Vapor pressure	: < 0.75 mmHg @ 180 °C
Specific gravity (Water =1)	: 1.00 – 1.06
Water solubility	: Negligible
Trichloroethylene Solubility	: 99.5 % wt minimum
Flammability limits	: LEL: 0.7 % v/v; UEL: 6.0 % v/v
Auto ignition temperature	: 400 °C by ASTM Method
Vapor density (air =1)	: < 1
Chemical stability	: Stable. Reacts with oxidizing agents.

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	: Chemically stable under normal conditions of use.
<b>Conditions to Avoid</b>	: Heat, formation of vapors and naked flames.
<b>Materials to Avoid</b>	: Strong oxidizing agents. Avoid accidental contact of hot material with water as this can cause violent eruptions.

### Hazardous Decomposition Products:

If bitumen is over heated, decomposition products may be formed resulting into a fire or explosion hazard. H<sub>2</sub>S may be released if the product is heated, particularly in the presence of water. Pyrophoric deposits may develop in bitumen tanks which may self-ignite.

## 11. TOXICOLOGICAL INFORMATION

<b>Routes of Exposure</b>	: Exposure will most likely occur through skin or eye contact. Inhalation is only possible if the product is heated or mists are generated.
<b>Carcinogenicity and Mutagenicity</b>	: According to the International Agency for Research and Cancer (IARC), this product is not classifiable as a human carcinogen. It may contain a variety of Polycyclic Aromatic Hydrocarbons (PAH), some of which are associated with the potential of inducing skin cancer. Increasing amounts of PAH may be released if this product is heated above 200°C.
<b>Chronic effects</b>	: Prolonged or repeated contact with Polycyclic Aromatic Hydrocarbons (PAH) may cause skin cancer where there is

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poor personal hygiene.

## 12. ECOLOGICAL INFORMATION

**Biodegradability** : Not readily biodegradable. Potential for bioaccumulation.

## 13. DISPOSAL CONSIDERATIONS

**Material Disposal** : Waste management priorities (depending on the volumes and concentrations of waste) are:

1. Recover or recycle (process) if possible. Contain spill with sand or earth or absorb with absorbent material. Place used absorbent in suitable sealed containers for disposal.
2. Energy recovery (cement kilns, thermal power generation).
3. Incineration.
4. Disposal at a licensed waste facility.

**Local Legislation** : Disposal in Kenya should be in accordance with the Environmental Management and Coordination (Waste Management) Regulations, 2006.

## 12. ECOLOGICAL INFORMATION

**Biodegradability** : Not readily biodegradable. Potential for bioaccumulation

## 13. DISPOSAL CONSIDERATIONS

**Material Disposal** : Dispose of used absorbent in an approved landfill or municipal tip in accordance with local regulations. Cold material is biologically inert. Do not contaminate rivers, streams, or watercourses.

**Local Legislation** : Disposal in Kenya should be in accordance with the Environmental Management and Coordination (Waste Management) Regulations, 2006.

## 14. TRANSPORT INFORMATION

Identification number	UN 3257
Proper shipping name	Bitumen
DG Class / Division	9 (Miscellaneous Dangerous Substances)
Hazchem code	2 W
Packing Group	III

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## 15. REGULATORY INFORMATION

Reference is made to the Iranian Factories & Other Place of Work (Hazardous Substances) Regulations, 2007. Other regulations may apply to this material.

## 16. OTHER INFORMATION

**MSDS Revisions** : None.

**MSDS Regulation** : The contents in the MSDS are in fulfillment of the requirements of the Factories & Other Place of Work (Hazardous Substances) Regulations, 2007.

**Disclaimer:** : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty or guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

## Bitumen Test Certificate



### Sample Details:

Bitumen Grade: 60/70	Sampling Truck No.: AH975HA- BB8750
Reference Sample No.: LB203119	weight: 26210 Kg
Sampling Date: 20. July .2019	Operator ID: 656
Hologram No.: 11753	

### Laboratory Ambient Condition

Temperature: 25 °C	Pressure: 1 atm	Humidity: 25%	Operator ID: 996
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### Test Report:

CHARACTERISTICS	TEST METHOD	UNIT	MIN	MAX	Test Result
Penetration at 25 °C , 100 g, 5s	ASTM D5	mm	60	70	63
Ductility at 25° C	ASTM D113	Cm	100		138
Flash point	ASTM D92	°C	230		309
Solubility in Trichloroethylene	ASTM 2042	%	99		99.97
Performance after RTFOT Method test to ASTM D1754					
Change in mass (m/m)	ASTM 2872	%		0.8	0.13
Retained Penetration 25 °C, 100 g, 5s (% of original)	ASTM D5	%	54		87

Site Manager

**Azerbaijan  
Tekin  
Petroleum  
ind. co.**

Laboratory Manager

Quality Manager

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Complex, Hashtroud - IRAN  
PO Box 55719 - 17785  
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## Bitumen Test Certificate

### Sample Details:

Bitumen Grade: 70/100	Sampling Truck No.: 98B933/4 -10
Reference Sample No.: LB202919	weight: 20970 Kg
Sampling Date: 15. Apr .2019	Operator ID: 656
Hologram No.: 11577	

### Laboratory Ambient Condition

Temperature: 25 °C	Pressure: 1 atm	Humidity: 25%	Operator ID: 996
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### Test Report:

CHARACTERISTICS	TEST METHOD	UNIT	MIN	MAX	Test Result
Penetration at 25 °C , 100 g, 5s	ASTM D5	mm	70	100	95
Ductility at 25° C	ASTM D113	Cm	100		119
Flash point	ASTM D92	° C	230		295
Solubility in Trichloroethylene	ASTM 2042	%	99		99.98
Performance after RTFOT Method test to ASTM D1754					
Change in mass (m/m)	ASTM 2872	%		0.8	0.12
Retained Penetration 25 °C, 100 g, 5s (% of original)	ASTM D5	%	47		58

Site Manager

Laboratory Manager

Quality Manager

**Azerbaijan  
Tekin  
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PO Box 55719 - 17785  
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ISO  
9001  
QUALITY  
ASSURANCE



## Bitumen Test Certificate



### Sample Details:

Bitumen Grade: 160/220	Sampling Truck No.: 22B869/70-10
Reference Sample No.: LB202940	Weight: 22770 Kg
Sampling Date: 24. Apr.2019	Operator ID: 656
Hologram No.: 11586	

### Laboratory Ambient Condition

Temperature: 25 °C	Pressure: 1 atm	Humidity: 25%	Operator ID: 996
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### Test Report:

CHARACTERISTICS	TEST METHOD	UNIT	MIN	MAX	Test Result
Penetration at 25 °C , 100 g, 5s	ASTM D5	mm	160	220	205
Ductility at 25° C	ASTM D113	Cm	100		117
Flash point	ASTM D92	°C	220		299
Solubility in Trichloroethylene	ASTM 2042	%	99		99.97
Performance after RTFOT Method test to ASTM D1754					
Change in mass (m/m)	ASTM 2872	%		1.5	0.34
Retained Penetration 25 °C, 100 g, 5s (% of original)	ASTM D5	%	37		65

Site Manager

Laboratory Manager

Quality Manager

## Bitumen Test Certificate



### Sample Details:

Bitumen Grade: 50/70	Sampling Truck No.: 79E231/2-10
Reference Sample No.: LB202939	Weight : 22860 Kg
Sampling Date: 17. Apr.2019	Operator ID: 25
Hologram No.: 11585	

### Laboratory Ambient Condition

Temperature: 25 °C	Pressure: 1 atm	Humidity: 25%	Operator ID: 42
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### Test Report:

CHARACTERISTICS	TEST METHOD	UNIT	MIN	MAX	Test Result
Penetration at 25 °C , 100 g, 5s	ASTM D5	mm	50	70	63
Ductility at 25° C	ASTM D113	Cm	100		135
Flash point	ASTM D92	° C	230		309
Solubility in Trichloroethylene	ASTM 2042	%	99		99.98
<b>Performance after RTFOT Method test to ASTM D1754</b>					
Change in mass (m/m)	ASTM 2872	%		0.8	0.14
Retained Penetration 25 °C, 100 g, 5s (% of original)	ASTM D5	%	54		87

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