

O nama

Rafinerija ulja Modriča predstavlja renomiranog i najvećeg proizvođača maziva i funkcionalnih tečnosti u jugoistočnom dijelu Evrope i ravnopravnog proizvođača maziva sa najpoznatijim evropskim i svjetskim brendovima u industriji maziva.

Osnovu za to predstavljaju vlastita proizvodnja i najsavremenija postrojenja za proizvodnju maziva, te razvojni tim i laboratorijska kontrola proizvoda, kao čuvari kvaliteta i garancije proizvoda.

Poznati brend svoju poziciju na domaćem, regionalnom i inostranom tržištu sačuvao je zahvaljujući strateškom radu na usavršavanju tehnologije i proširenju asortimana visokokvalitetnih proizvoda koji ispunjavaju sve strožije evropske i svjetske norme i specifikacije.

Koristimo opsežno znanje o svim kategorijama proizvoda kako bismo našim partnerima omogućili uvid u nove trendove i tržišta maziva i time što bolje zadovoljili potrebe svojih kupaca.

About us

Modrica Oil Refinery is a renowned and largest lubricant and functional automotive fluid manufacturer in the southeastern part of Europe, ranked equally to the most famous European and world lubricant industry brands.

Such recognizability is based upon our own production lines and state-of-the-art facilities for lubricant manufacturing, as well as on our development team and laboratory product control, harboring and warranting our product quality.

Being a well-known brand, we have maintained our position on the domestic, regional and foreign markets owing to strategic work on technology improvement and expansion of high-quality product range, which meet increasingly strict European and world standards and specifications.

We use extensive knowledge of all product categories to provide our partners with a new trend and lubricant market insights, and thus meet our customer needs as best as possible.



DISTIRBUTER / DISTRIBUTOR

AdBlue®

Novi proizvod iz Rafinerije ulja Modriča / New Oil Refinery Modrica product

- **Za motore teretnih i putničkih vozila sa SCR sistemom za naknadnu obradu izduvnih gasova.**
For freight and passenger vehicle engines equipped with SCR exhaust gas aftertreatment system.
- **Smanjuje emisiju štetnih gasova.**
Ad Blue reduces harmful gas emissions.
- **Ispunjava zahtjeve standarda: DIN 70070; ISO 22241; CEFIC (AUS32)**
The product meets requirements of DIN 70070, ISO 22241 and CEFIC (AUS32) standards

EURO 4 EURO 5 EURO 6

60000

tona maziva i specijalnih tečnosti proizvedemo tokom godine
tons of lubricants and special purpose fluids manufactured during the year

48

sati je dovoljno da napravimo mazivo po vašoj recepturi
hours is enough time for us to make a specific lubricant according to your own formula

1

minut je dovoljan da proizvedemo 125 pakovanja motornog ulja
minute is enough time for us to manufacture 125 packages of engine oil

200+

laboratorijskih ispitivanja fizičko-hemijskih, mehaničkih i električnih svojstava
different laboratory test types for determining of product physical-chemical, mechanical and electrical properties

70

godina tradicije i inovacije
years of tradition and innovation

* Rafinerija ulja Modriča posjeduje podlicencu firme Eryigit Medical Devices AdBlue Certificate (No.0004138) čime se garantuje kvalitet rastvora uree i usklađenost sa VDA zahtjevima.

* Modrica Oil Refinery has been sublicensed by Eryigit Medical Devices Co., and granted an AdBlue Certificate (No.0004138), thus guaranteeing the quality and compliance of urea solution with VDA requirements.



Čista budućnost

U cilju zadovoljenja zahtjeva evropskih standarda EURO 4, EURO 5 i EURO 6, kojima su definisani limiti dozvoljene emisije štetnih materija poput ugljovodonika, ugljen-monoksida, azotnih oksida i čvrstih čestica, OEM proizvođači su razvili različite sisteme za obradu izduvnih gasova.

Jedan od takvih sistema za smanjenje emisije štetnih azotnih oksida je SCR sistem (Selective Catalytic Reduction), koji zahtijeva upotrebu AdBlue reagensa. AdBlue je 32,5% rastvor uree visoke čistoće u demineralizovanoj vodi, čije je kvalitete definisane standardima DIN 70070 i ISO 22241.

AdBlue® je registrovan kao robna marka njemačke Asocijacije automobilske industrije (Verband der Automobilindustrie, VDA). Pod nazivom AdBlue ovaj proizvod mogu da plasiraju isključivo licencirani proizvođači, čime se direktno potvrđuje i osigurava kvalitet proizvoda. Budući da se radi o primjeni u jako osjetljivim sistemima, proizvod mora da ispunji najstrožije zahtjeve u pogledu sadržaja i čistoće uree, dozvoljenog prisustva metala i drugih potencijalnih nečistoća.

Upotreba rastvora uree koji nije u skladu sa propisanim zahtjevima može da stvori puno problema pri radu SCR sistema, a time i značajno povisi troškove rada i održavanja. Prateći zahtjeve tržišta Rafinerija ulja Modriča se okrenula sopstvenoj proizvodnji AdBlue-a koji u potpunosti zadovoljava sve zahtjeve koji se postavljaju pred ovaj tip tečnosti, čime je potvrdila da su istraživanje, sigurnost i kvalitet ključni faktori za brigu o Vašem vozilu i očuvanju životne sredine.

Urea koja se koristi za proizvodnju AdBlue-a je sintetički proizvod visokog stepena čistoće, proizvedena uglavnom iz prirodnog gasa. Pored automobilske industrije, urea nalazi veliku primjenu u proizvodnji hemijskih đubriva, plastike, u farmaceutskoj industriji.

A clean future

In order to meet the requirements of EURO 4, EURO 5 and EURO 6 European standards, determining the allowable harmful substance emission limits, such as hydrocarbons, carbon monoxide, nitrogen oxides and solid particles, OEM manufacturers have developed various systems for exhaust gas aftertreatment.

One of such systems for reducing harmful nitrogen oxides emission is the SCR system (Selective Catalytic Reduction), requiring the use of AdBlue reagent. AdBlue is a 32.5% solution of high-purity urea in demineralized water, the quality of which is specified by DIN 70070 and ISO 22241 standards.

AdBlue® is a German Association of the Automotive Industry (Verband der Automobilindustrie, VDA) registered trademark. Under the name AdBlue, this product may only be marketed by licensed manufacturers, by which the quality of the product is directly ascertained and ensured. Considering that such product is applied in highly sensitive systems, it must meet the strictest requirements regarding the content and purity of urea, allowable presence of metals, and other possible impurities.

The use of a urea solution non-complying with the stipulated requirements can create a lot of problems during the SCR system operation, and thus significantly increase the operation and maintenance costs. Keeping up with market demands, Modrica Oil Refinery decided to start its own production of AdBlue fully complying with all the requirements for this type of fluid, by with the factory confirmed that research, safety and quality are key factors for taking care of your vehicle and protecting the environment.

The urea used in manufacturing of AdBlue is a high-purity synthetic product, produced mainly from natural gas. Besides the automotive industry, urea is widely used in the production of chemical fertilizers, plastics, and in the pharmaceutical industry.



5L Kanister / Canister



10L Kanister / Canister



1000L IBC



Kako radi AdBlue®

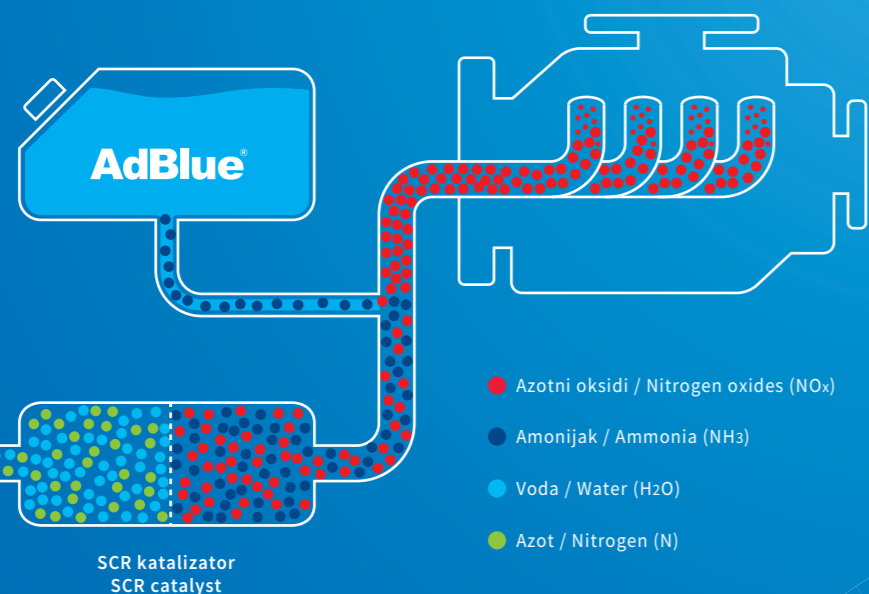
AdBlue® se ubrizgava u izduvnu granu, na dijelu koji se nalazi ispred SCR katalizatora, a iza motora, a potom se uslijed zagrijavanja razlaže na amonijak i ugljen-dioksid.

Unutar samog SCR katalizatora dolazi do hemijske reakcije između amonijaka i azotnih oksida koji se pretvaraju u azot i vodenu paru koji čine prirodne komponente vazduha koji udišemo.

How the AdBlue® works

AdBlue® is injected into the exhaust manifold, at the part situated before the SCR catalyst and behind the engine, and then, due to surrounding heat, it is being decomposed into ammonia and carbon dioxide.

Inside the SCR catalyst occurs a chemical reaction between ammonia and nitrogen oxides, which are then converted into nitrogen and water vapor, being the natural components of the air we breathe.



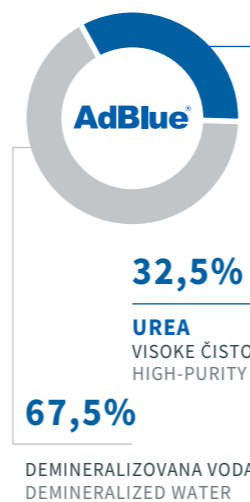
- Azotni oksidi / Nitrogen oxides (NO_x)
- Amonijak / Ammonia (NH₃)
- Voda / Water (H₂O)
- Azot / Nitrogen (N)

SCR katalizator
SCR catalyst

Opres: AdBlue® nije aditiv za dizel gorivo! Dozira se nezavisno u poseban rezervoar.
Caution: AdBlue® is not an additive for diesel fuel! It must be dosed independently, from a separate tank.

Ključna svojstva našeg AdBlue®:

- ✓ **SMANJENA POTROŠNJA GORIVA**
Primjena SCR tehnologije i AdBlue-a doprinosi smanjenju potrošnje goriva za oko 5%
- ✓ **ZAŠTITA SCR SISTEMA**
Brigom o kvalitetu AdBlue-a koji se prati i kontroliše u laboratoriji Rafinerije ulja Modriča osigurava se zaštita i dug radni vijek SCR sistema.
- ✓ **EURO STANDARDI**
Zajedno sa SCR sistemom, AdBlue osigurava prevođenje štetnih azotnih oksida u bezopasni azot i vodu čime se ispunjavaju zakonski propisi definisani EURO 4, EURO 5 i EURO 6 standardima.
- ✓ **SMANJENJE EMISIJE ŠTETNIH GASOVA**
Količina NO_x u izduvnim gasovima se smanjuje i do 90%.
- ✓ **EKOLOŠKA PRIHVATLJIVOST**
AdBlue je bezopasna tečnost, lako i brzo se razlaže pod dejstvom mikroba, ne predstavlja opasnost po zdravlje ljudi i životnu sredinu.



AdBlue® je bezbojan, biorazgradiv i rastvorljiv u vodi

AdBlue® is a colorless, biodegradable and water-soluble product

AdBlue® nije zapaljiva tečnost, ali ga treba skladištiti na suvom, hladnom mjestu sa dobrom ventilacijom, zaštićenom od direktne sunčeve svjetlosti. Preporučena temperatura skladištenja: između -5°C i +25°C.

Key properties of our AdBlue®:

- ✓ **SCR SYSTEM PROTECTION**
Application of SCR technology along with AdBlue product contributes to reduced fuel consumption by about 5%
- ✓ **SCR SYSTEM PROTECTION**
By taking care of the AdBlue quality, being monitored and controlled at Modrica Oil Refinery laboratory, we ensure protection and long service life of the SCR system.
- ✓ **EURO STANDARDS**
Along with the SCR system, AdBlue provides for conversion of harmful nitrogen oxides into a harmless nitrogen and water, ensuring compliance with legal regulations specified by the EURO 4, EURO 5 and EURO 6 standards.
- ✓ **REDUCTION OF HARMFUL GAS EMISSIONS**
By using AdBlue, the amount of NO_x in the exhaust gases will reduce by up to 90%.
- ✓ **ENVIRONMENTAL ACCEPTABILITY**
AdBlue is a harmless fluid, it decomposes easily and quickly under microbial activity, and it does not pose a health and environmental hazard.

AdBlue® is not a flammable liquid, but it should be stored in a dry, cool place with good ventilation, protected from direct sunlight. Recommended storage temperature: between -5°C and +25°C.

	Benzinske stanice Petrol station	5L kanister/canister	10L kanister/canister	1000L IBC	Isporuke cisternom Bulk deliveries
Putnička i komercijalna vozila Passenger and commercial vehicles					
Kamioni, autobusi i druga teška vozila Trucks, Buses and other heavy vehicles					
Poljoprivredna, građevinska i druga Off-Road mehanizacija Agricultural, construction and other non-road mobile machinery (NRMM)					