



AGQM

Arbeitsgemeinschaft
Qualitätsmanagement
Biodiesel e. V.

Our quality makes
the difference



**1999
DECEMBER**

Foundation of the
association

**2000
JUNE**

QM System of AGQM comes
into force and is constantly
updated

**2002
JANUARY**

The Technical
Committee is
established

**2004
OCTOBER**

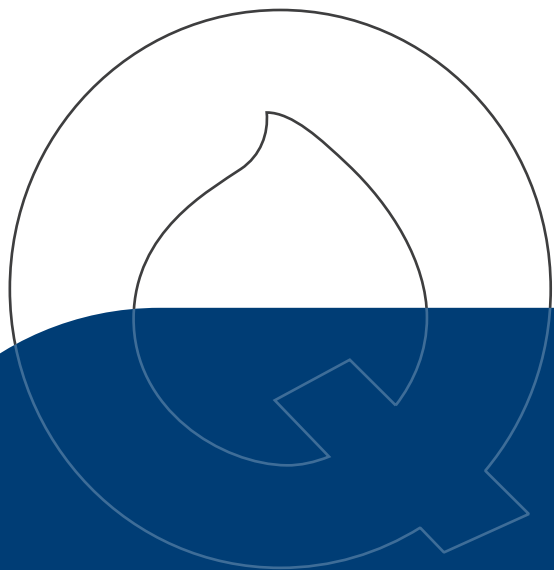
EN 14214 is
published

**2008
SEPTEMBER**

First DIN FAM – AGQM
round robin test for FAME

**2008
DECEMBER**

First No-Harm test
for Antioxidants



EXPERIENCE MAKES THE DIFFERENCE

Since 1999 the Association Quality Management Biodiesel (AGQM) guarantees the highest quality.



**2009
NOVEMBER**

Foundation of the AGQM
Reach Consortium

**2014
SEPTEMBER**

Reach and SDS
maintenance
contracts available

**2016
APRIL**

First round robin
test for Pharma-
ceutical Glycerol

**2018
DECEMBER**

Leaflet compendium
published

**2019
OCTOBER**

First No-Harm test for
Biodiesel Flow Improver

WHO IS THE AGQM BIODIESEL?

The group of AGQM members includes biodiesel producers, biodiesel traders, associations, additive manufacturers, and research institutes. With about 80% of the German biodiesel capacity, the association is dedicated to the technical and qualitative challenges of the biodiesel industry.

WHAT DOES THE AGQM DO?

The three pillars of AGQM are quality assurance, R&D and services. Even today, more than 20 years after its foundation, the quality assurance of FAME and its by-products is the main focus. In addition, the AGQM is involved in various research projects and committees.

WHAT ARE THE ADVANTAGES FOR THE MEMBERS?

They belong to the quality family that enjoys an outstanding reputation far beyond the borders of Germany! AGQM's work in standardisation and research is one building block for the continuation of biodiesel in the fuel mix. In addition, offers from AGQM in the areas of REACH, seminars and round robin tests can be accepted at reduced prices.

HOW DOES THE ASSOCIATION INVEST IN THE FUTURE?

Research projects, cooperation with other associations and experts as well as standardisation work are fundamental measures. In addition, new ideas are constantly being developed to further secure the use of FAME.

WHAT ARE YOU PARTICULARLY PROUD OF?

The AGQM employees who, after changing times, become an excellent and stable team in which everyone has developed into an expert in its field. Thereby various tasks could be linked to the office. At the same time, everyone is ready to evolve to achieve great things in the future.

Dr. Richard Wicht, CEO





QUALITY ASSURANCE

BECAUSE QUALITY MATTERS!

AGQM's ambitions support the best quality in bio-diesel - nationally and internationally. For this purpose, the association uses the concentrated know-how of gathered experts and relies on independence, high standards and data security.

You are not certified by ISO 9001? No problem, because AGQM's quality management system is based exactly on this.

For members who are not ISO 9001 certified or want an additional inspection the AGQM carries out an annual audit. Thereby, the quality standards are reviewed and corrected upwards if necessary. Annually changing the focus of the inspection leads to a continuous further development of the participating companies.



Katharina Friedrich, Quality Manager

HIGHEST QUALITY IS OUR GOAL!

For ISO 9001 certified members, presentation of the valid certificate is sufficient as proof of conformity with the AGQM quality management system.



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• **Biodiesel (1G/2G)** • **Technisches Glycerin**
• **Rapskuchen**



INDEPENDENT ANALYSIS

- At least three unannounced samplings per year at all manufacturers and warehouse operators who are members of AGQM
- Testing by an independent laboratory - Analysis and documentation according to DIN EN 14214
- Publication of the results in the annual quality report
- Results are available to members free of charge: e.g. for official audits such as those of the German customs authorities or similar
- Increasing the trustworthiness and credibility of all inspected companies through independent authority



**Hochwertiger Biodiesel
aus Altspeisefett und Rapsöl**

kompetent
nachhaltig
energiebewusst
seit 2001

**Ihr Partner für die
Biodieselproduktion.
Verkauf und Lohnverarbeitung**



**REDcert EU
DIN EN ISO 50 001
DIN EN ISO 9001**





QUALITY ASSURANCE

WHY?

Why is the testing so well respected?

Our strict quality management system sets the requirements, the parameters and limit values to be checked for AGQM biodiesel. For the parameters water content, total contamination and CFPP stricter limit values apply that exceed the requirements of DIN EN 14214. The results of the sampling are anonymized and publicly available. As a result, only high-quality biodiesel that meets these limit values is in circulation.

Are the data safe?

Data security is essential for a trusting cooperation. Thus, all the results are evaluated strictly confidentially and anonymously to avoid any distortion of competition.

What happens if an analysis does not show the desired results?

The member is informed as quickly as possible about the anomalies of the test. Together, we look for reasons and assist in solving the problem.

What is the impact of AGQM's work on the use of biodiesel?

Many years of experience and well-founded results are used for the technical development of biodiesel. With those findings, we prove the usability of biodiesel and have an excellent basis for argumentation for the automotive industry and fuel injection system manufacturers.



ENERGY FROM WASTE

www.muenzer.at

ROUND ROBIN TESTS - AGQM INTERNATIONAL

More than 50 laboratories worldwide participate in the unique round robin tests of the AGQM.

FAME, vegetable and used cooking oils:

Participation in round robin tests is mandatory to prove the measurement capability to the customs authorities. The Round Robin Test FAME Part 1 queries all parameters of DIN EN 14214, which are listed in the 36th BImSchV. FAME Part 2 contains additional further parameters such as methanol content, whereas FAME Part 3 queries the cetane number. For the analysis of oils, the parameters of DIN 51623 and selected standard parameters are examined. All participants receive anonymized results and a certificate on their own results including an evaluation according to Z-scores. The round robin tests are carried out in cooperation with DIN FAM.

Pharmaceutical Glycerol:

This round robin test is dedicated to the analysis of pharmaceutical glycerol. Various parameters from the European Pharmacopoeia and the fuel standards are tested.



AGQM-biodiesel –
Our quality makes the difference



Round Robin Tests (RRT)



Quality-Check Material



Auditing of the members

AMBRIAN ENERGY



... for the green in your benzine.

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Große Johannisstraße 19
20457 Hamburg
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TECHNOLOGY

BIODIESEL - A CONTRIBUTION TO ENVIRONMENTAL PROTECTION!

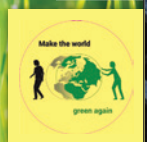
Biodiesel protects the climate and fossil resources: With greenhouse gas savings averaging 83 percent, the use of Biodiesel is an effective measure to significantly reduce the CO₂ footprint already today and in the existing vehicles.

Biodiesel is produced from a wide range of raw materials. For example, vegetable oils, used cooking oils and animal fats are used, which are currently available in sufficient quantity and quality.

The current approval lists for commercial vehicles and inland navigation show that biodiesel can also be used in pure form in vehicles with state-of-the-art exhaust gas aftertreatment systems and is approved by engine manufacturers. Companies can find information on the compatibility of engines and biofuels on the current approval lists. Current data are available for the marine and commercial vehicles sectors. Interested parties can obtain individual information on the use of biodiesel in passenger cars on request.



Let's make the world green again together.
With green chemistry



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ALWAYS UP TO DATE

Always at the cutting edge of research and technology: This is extremely important in order to be able to guarantee the highest standards on a permanent basis and to act as a pioneer for biofuel. That is why AGQM provides the convenor of the Working Group FAME, the project leader of the method for the determination of total contamination and is an active member in various working groups. The aim is to continuously develop standards and directives to ensure that they meet current and future requirements. This technically well-founded development is one of the AGQM's most important tasks.



AGQM-Biodiesel –
Standardization



Research and development

QUALITY FUELS.



With the Baynox® product range the quality of fuels can be improved greatly. The addition of our high performance phenolic and aminic antioxidants allows for an efficient and cost-effective protection of biodiesel from the different feed stocks. Also diesel and gasoline, heating oil and jet fuel are safety protected against oxidation. With six products on the AGQM no-harm list, LANXESS is the leading supplier of antioxidants for the fuel industry. For further information about our comprehensive Baynox® service, go to: www.baynox.com

 Baynox®

QUALITY **WORKS.**

LANXESS
Energizing Chemistry



SERVICES

DIVERSITY IN ALL AREAS

Accuracy and correct information are extremely important for everyone involved. Here we present some tools that will help in the long run:



Dr. Ingo Horn, Technical Expert

NO-HARM TEST

This means the no-harm testing of oxidation stabilisers and flow improvers that are added to biodiesel as additives. For this purpose, a combination of different methods of effectiveness control, testing for the absence of interaction as well as the safe use applies. The analyses and engine tests are carried out in accredited, experienced laboratories. Successfully tested additives are published in the respective AGQM No-Harm lists.

- Regulatory service concerning chemicals and waste
- Assistance for handling and use of chemicals
- REACH and CLP specialist's work



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REACH SERVICES

REACH services are an indispensable part of our service. Every company that produces or imports chemical substances must deal with the REACH regulation. AGQM supports registrants in registering new substances, the updating of existing dossiers and the preparation of safety data sheets. Due to our many years of experience, we have valid and extensive knowledge in the REACH area of FAME and by-products.

Upon request, AGQM will also take over the continuous review and updating of the REACH-IT accounts and the maintenance of all safety data sheets for the client. Already 28 participating companies appreciate this service and all the associated benefits.

SEMINARS

Once a year there is one German and one English seminar on biodiesel analysis. These seminars focus on the production of biodiesel on a laboratory scale as well as the implementation and explanation of analytical methods according to DIN EN 14214 in the well-equipped laboratories of the Analytik-Service-Gesellschaft (ASG).

During the analytics seminars, current issues and questions of the industry are addressed. They are ideally suited for the induction of new employees in the biodiesel industry or as further and advanced training for QM officers, laboratory staff or other interested parties in your company.



REACH Regulation



Additive Testing



Analytics Seminar



Lab Coaching

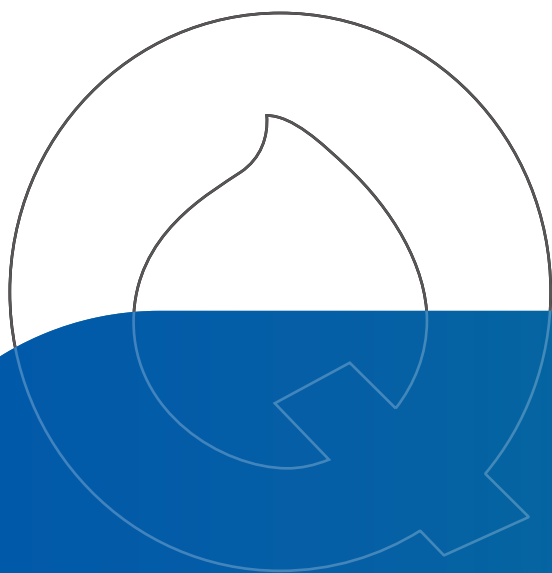
ERC

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Hochleistungsadditive!

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ADDITIV

MADE IN GERMANY



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Become a member, now!

On our website
www.agqm-biodiesel.com/en
you can find the application
for membership in the AGQM.