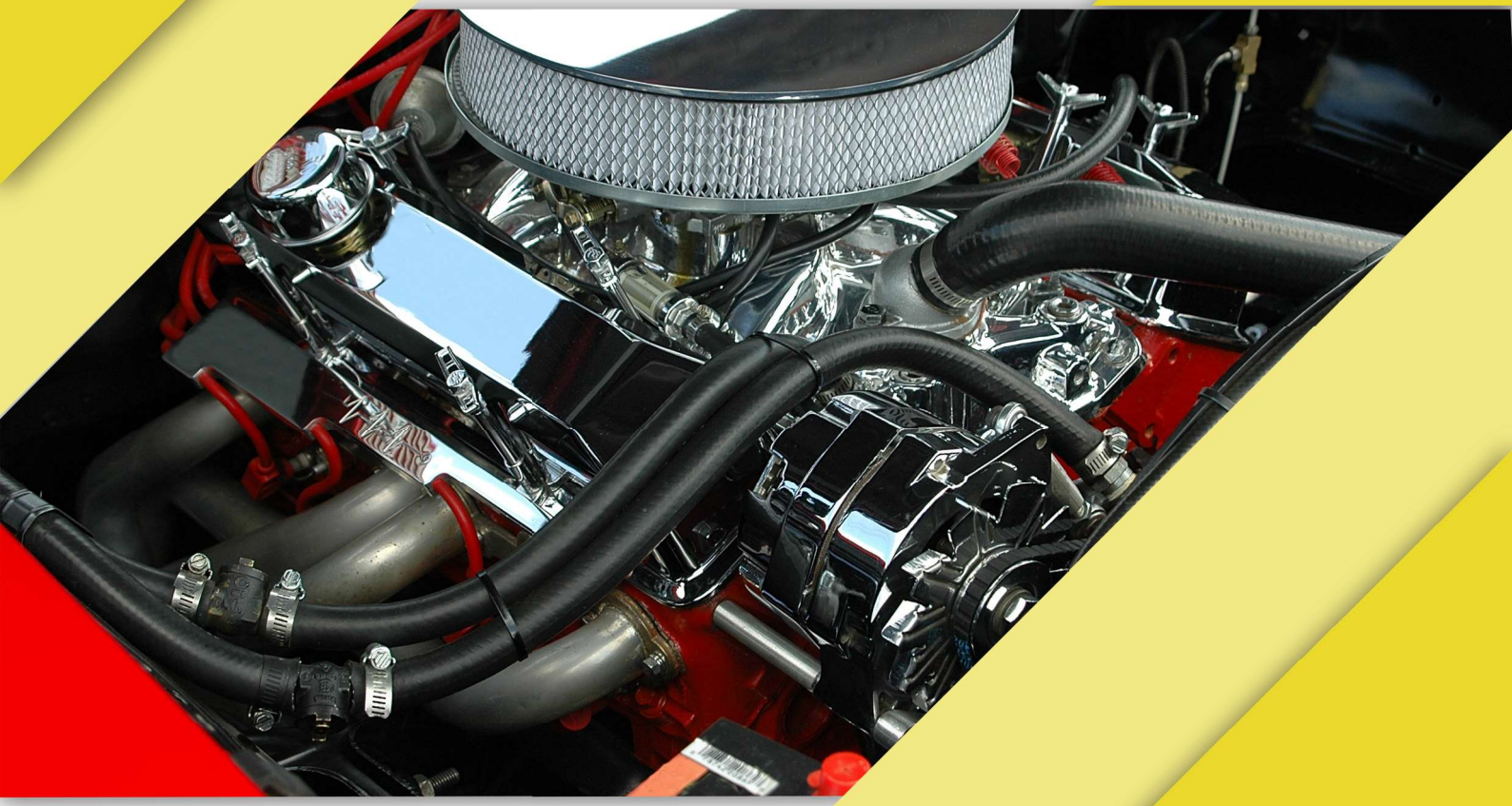
Filters
ZACO
Filtration Equipment



WWW.ZACOFILTERS.COM

FOR EVER QUALITY

ABOUT US

ZACO Filter was established in 1980. The firm manufactures the air, the oil, the fuel filters for automotives, work machines, agriculture and commercial buses and trucks. Besides, it can product on the direction of customer's order.
Producing wide different various filter through young and dinamic staff, the firm imbibes the principle of quality and pleasure as a production policy.

ZACO Filter is produced with DPS system, which was developed by Ar-Ge department, that attracts attention in the international markets.

Our company comprises all types of filters which are required by the sector. It targets to provide high quality products and service with its solution oriented custom production alternatives.
ZACO filter, as a result of professional accumulation and technical experience of more than 25 years, has taken its place in the global sector as an important actor by prioritizing the quality and customer satisfaction.
With more than 5500 types of filter comprising within the company, it supplies the filter requirements of the global market. At the same time, with its custom production alternatives, it has become a problem solver.

The process of new product commissioning of our company is fast and it serves with the conditions that will provide customer satisfaction by using simultaneous engineering techniques.

At the present time, ZACO filter is rising as one of the most reliable brands of the world with its technology, quality and service level .

HAKKIMIZDA

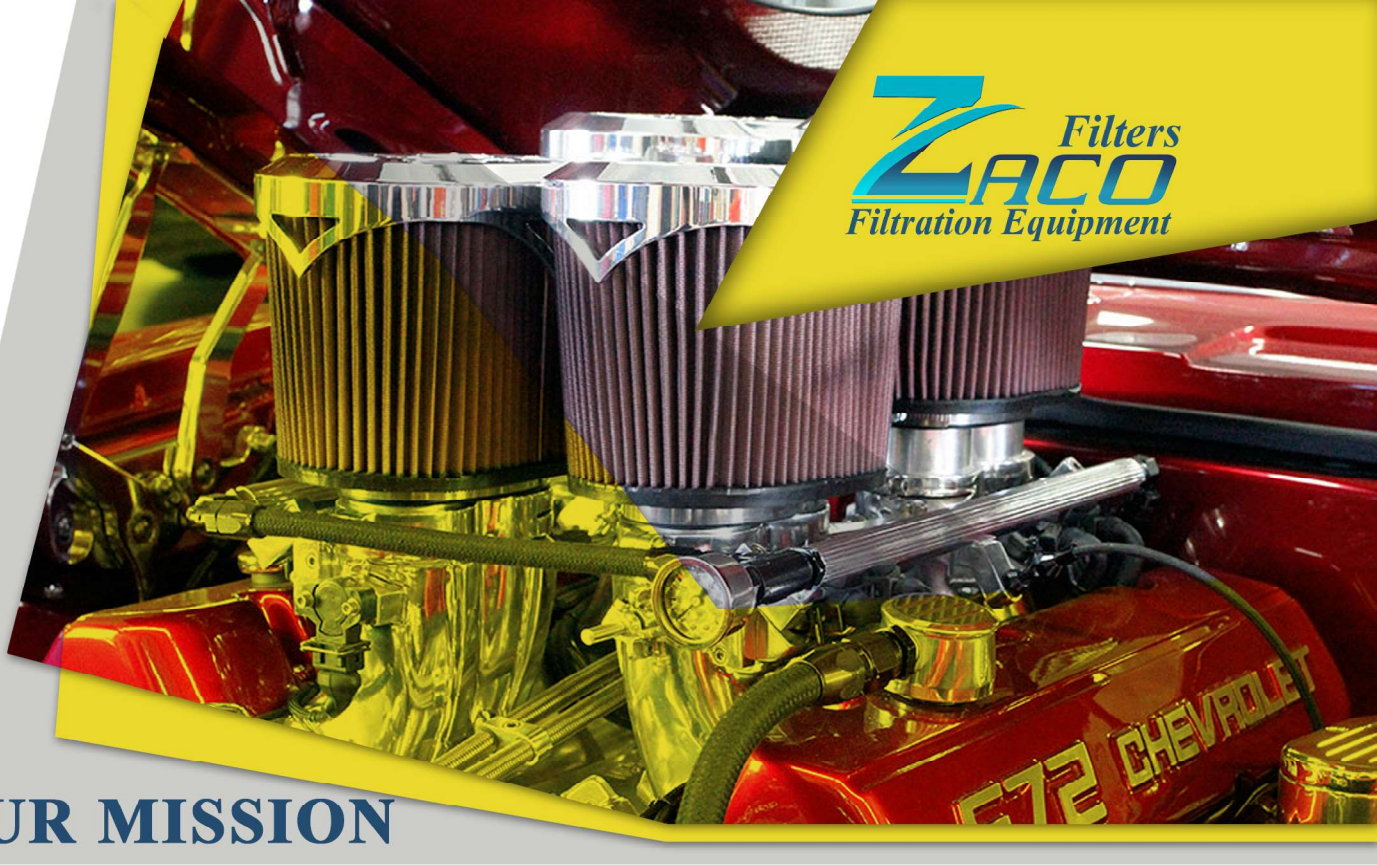
Şirketimiz sektörde ihtiyacı duyulan her çeşit ıltre üretimini gerçekleştirmektedir. Çözüm odaklı ve özel üretim alternatifleriyle, yüksek kalitede ürün ve hizmet temin etmeyi amaçlamaktadır.

ZACO fıltre, 25 yılı aşkın mesleki birikim ve teknik deneyimin bir sonucu olarak, kalite ve müşteri beğenisine öncelik vermek suretiyle önemli bir aktör olarak küresel ektördeki yerini almıştır.

Şirket; bünyesinde mevcut olan 5500 tür fıltre le, küresel piyasanın fıltre ihtiyacını sağlamaktadır. Aynı zamanda, özel üretim altematifleriyle birlikte, problem çözücü bir konuma kavuşmuştur.

Şirketimizin yeni üretim süreci hızlıdır ve eşzamanlı mühendislik teknikleri kullanılarak müşteri memnuniyetini sağlayacak şartlarda hizmet sunulmaktadır.

Günümüzde, ZACO fıltre, teknoloji, kalite ve izmet seviyesiyle, dünyanın en güvenilir markalarından bir olarak yükselmektedir .



OUR MISSION

To make contiuous betterment studties by designing new products under the light of technological developments.
To make correct interpretations regardthg market issues and to increase its market share.
To employ well educated personnel.
To be environmental friendly .
To cooperate with the suppliers .
To consider the personnel as valuabte assets to make investments .
To respect to the social values and to contribute the environment.
To minimize all the possible risks against personnel, customers , end—users of our products .
To provide customer satisfaction as a corporate company with its quality and service warranty with its careful personnel to the filter sector.

OUR VISION

ZACO filters involves ALL KINDS OF FILTERS and by its specific production alternatives it targets to produce HIGH QUALITY PRODUCTS AND SERVICE .

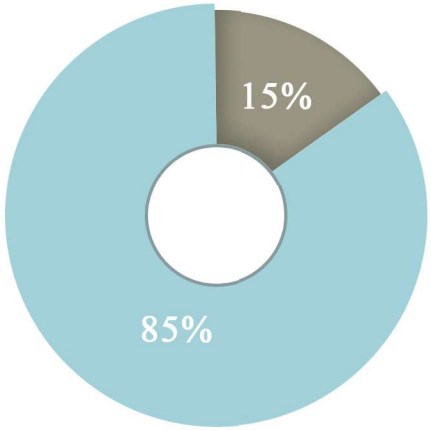
SALES

ZACO FILTERS which applies its customer oriented marketing approach in foreign markets, serves 34 countries in Europe, CIS countries, Africa and Middle East with its own brand.

ZACO FILTERS, which produces filters among the famous brands in international markets with its
long-term relationships, continues to take steps in the world markets accompanied with itstechnology, quality and service level. Our company, regularly exhibiting in the fairs abroad, is developing its customer relations via electronic commerce and customer visits. In the foreign trade contacts that the quotations and orders are agreed in the internet environment, all kinds of information regarding the updated deliveries and deadlines are supplied. Also after the export process, the customer relations management program continues in compliance with its marketing approach.

SALES / SHARES

Abroad 85%
Domestic 15%



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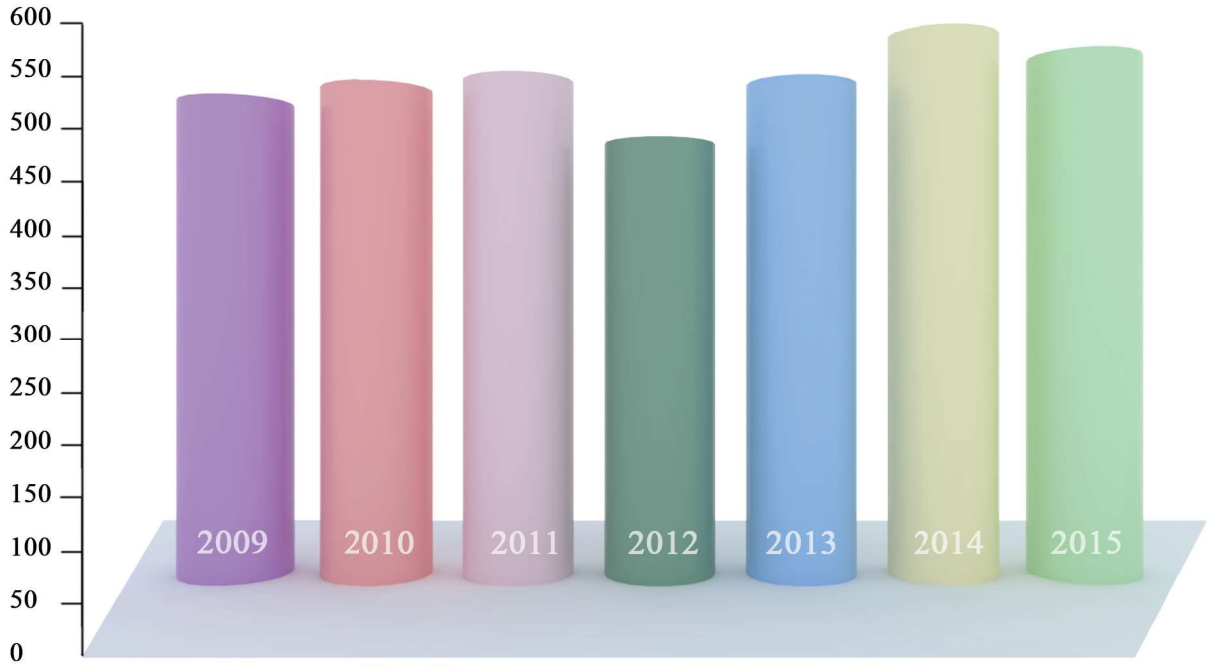
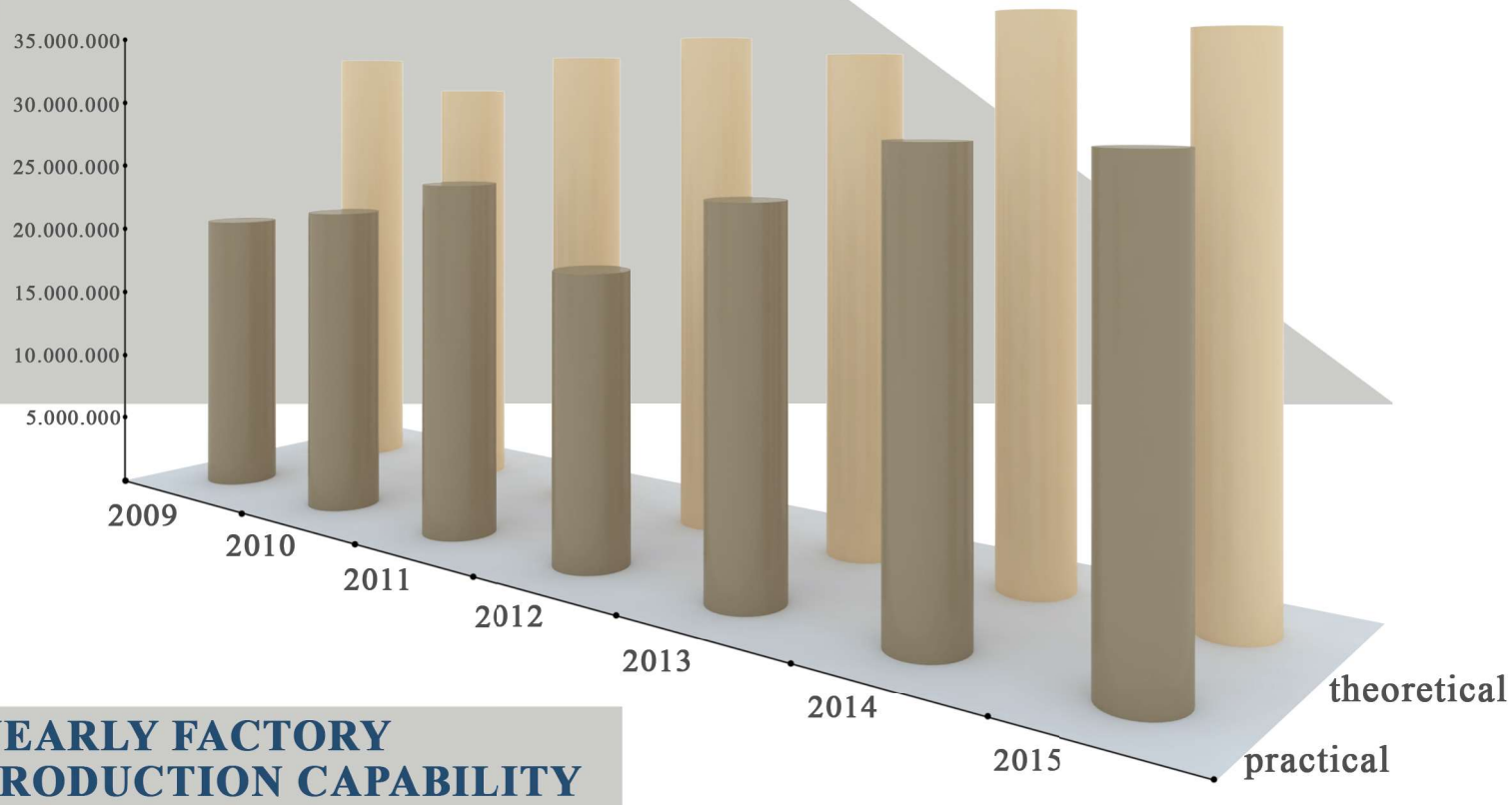
EXPORTING COUNTRIES TABLE



Group factory employee force

PRODUCTION



YEARLY FACTORY PRODUCTION CAPABILITY

QA

ISO 9001:2008
ISO / TS16949:2009
ISO 14001:2004
OHSAS 18001:2007
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

ZACO PRODUCTS

Filters
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Our company plans the quality by prioritizing the high quality and accuracy criteria during selecting the materials, raw materialsand auxiliary equipment. The team composed of engineers are responsible for the project starting from the beginning until the delivery of the product to the customers.

Codification of Products

ZACO PRODUCTS

Codification of Products

Air Filters

Disposable Air Filters

Eco Plus Filters

Dust Collector Filters

Gas Turbine Filters

Eco Filters

Element Air-Oil Seperator Filters

Air Filters

Automotive Air Filters

ZACO PRODUCTS

Codification of Products

Element Fuel Water Seperator Filters

Microglass Hydraulic Filters

Wire Filters

Element Hydraulic Filters

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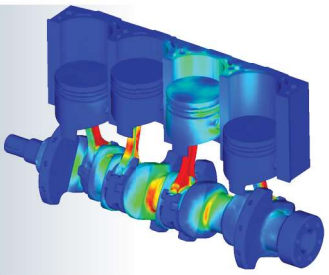
GUIDING PRINCIPLES

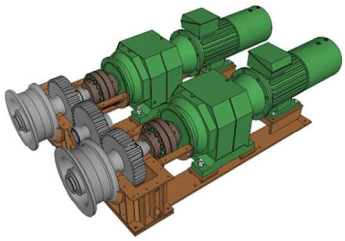
ANALYSIS AND
SIMULATION FEATURES



EXPERIENCED R&D
ENGINEERING TEAM

ENVIROMENTAL
FRIENDLY DESIGN

3D DESIGN



FAST RESPONSE
TO NEW PRODUCT

LABORATORY

Raw material tests Paper performance tests

- Thickness
- Grammage
- Air permeability
- Burst resistance
- Bubble test (max and min pore)
- Bubble point
- mean flow
- pore size
- max pore size
- mean pore size

Product performance tests Air, fuel & oil filter tests

- By-pass valve opening pressure test
- Anti-drain valve tests
- Pressure drop — flow characteristic
- Dirt retention capacity
- Life and efficiency tests
- Resistance to high pressure drop test
- Particle retention test
- Cleaning test of new filter
- By-pass valve life test

CALIBRATION

Meter & calipers calibration
Sensitive measuring of dimension

ZACO FILTER

COMPREHENSIVE LABORATORY

TEST RIG AND TOOLS OF THE LABORATORY

Topas PAF 111

Description	Test Capability	Test Capability		Sensibility (+/-)
Air Filter Test Method: DIN 71460-1 ISO 11155-1 ISO 12103-1 ACFINE ISO 12103-1 COARSE KCL DENS	Test of cabin air filters according to DIN 71460- 1 (ISO 11155-1) for separation of dust particles Dust loading tests Tests of filter media possible	Flow rate Pressure scale Dust Dust feeding pressur	1 m^3/h 1 hPa 0.2 bar	

frank pt1 micrometer

Description	Test Capability	Test Capability		Sensibility (+/-)
Air Filter Test Method: ISO 2758	Media burst strenght measuring Media burst index calculating Media burst energy absorption calculating	multi measure artimethic mean burst index burst energy absorption	a-2000 kPa	0.1 kPa

ZACO FILTER

COMPREHENSIVE LABORATORY TEST RIG AND TOOLS OF THE LABORATORY

Air filtertest rig topas abp 115

Description	Test Capability	Test Capability	Sensibility (+/-)
Air Filter Test Method: TSE TS 932 ISO 5011 SAE J726 JIS D1612	Pressure drop flow characteristics test Initial efficiency test Final efficiency test Dust holding capacity test Filter cartridges deformation test Pressure drop test under variable flow rate Water test	Flow rate : 0-3000 m3/h Pressure scale : 0-250 hPa Dust control : ISO 12103-1 ACFINE I5012103-1 COARSE Dust Injection Pressure : 0-6 bar	0,1 m3/h 0,01 hPa 0,2 bar

texteST FX 3300

Description	Test Capability	Test Capability	Sensibility (+/-)
Fuel Filter Oil Filter Air Fitter Test Method: All Standarts TLB.05.1.2	Air permaebility Resistance to air flow	Air flow rate0 to 10000 l/m2s Cross section 20 cm2 Test pressure max 2500 pa	1 1/m2s - -

ZACO FILTER

COMPREHENSIVE LABORATORY TEST RIG AND TOOLS OF THE LABORATORY

topas paf 112

Description	Test Capability	Test Capability	Sensibility (+/-)
Air Filter Test Method: DIN 71460-2 ISO 11155-2	Test of cabin air filters according to DIN 71460-2 (ISO 11155-2) for separation of gaseous elements Gas loading tests Tests of planar filter media possible	Flow rate : 70- 700 m3/h Pressure scale : 0 -1000 Pa Gas n-butane 63ppm-propan nitrogen 30 ppm-hyd- rogen 30ppm SO2	1 m3/h 1 hPa 99,994% 99,995% 99,996%

texteST FX 3300

Description	Test Capability	Test Capability	Sensibility (+/-)
Fuel Filter Oil Filter Air Fitter Test Method: All Standarts TLB.05.1.1	Thickness of the paper (media)	cross section: 16mm pressure scale : 0-100 kpa measurement scale : 0-10 mm	0.1 kg/cm² 0.001 mm

ZACO FILTER

COMPREHENSIVE LABORATORY TEST RIG AND TOOLS OF THE LABORATORY

TOPAS AFC 132

Description	Test Capability	Test Capability		Sensibility (+/-)
Air Filter Test Method: DIN 71460-1 ISO 11155-1 ISO 12103-1 AC-FINE ISO 12103-1 COARSE KCL DENS	Tests of filter elements according to the requirements of EN1822-4 Appendix E"Effi ciency leakage test for particle sizes from 0.3 pm to 0.5 pm"; related to filter elements which cannot be scanned due to its geometrical design	Flow rate Pressure scale Dust: Dust feeding pressure :	0-20 m3/h 0 -1000 Pa 0-2 bar	1 m3/h 1 hPa 0,2 bar

TOPAS psm 165

Description	Test Capability	Test Capability		Sensibility (+/-)
Fuel Filter Oil Filter Air Fitter Test Method: All Standarts TLB.05.1.4 BS 6410 BS 3321	Mean pore size Micron rate test Max. Pore volume test	cross section: pressure scale :	0,28 -4,15 cm2 0 - 500 mbar	1 l/m²s 1 mbar

ZACO FILTER

COMPREHENSIVE LABORATORY TEST RIG AND TOOLS OF THE LABORATORY

TOPAS SAG 420

Description	Test Capability	Test Capability	Sensibility (+/-)
Air Filter Test Method: ISO 5011	Particularly suitable for dust loading capacity tests according to ISO 5011 Innovative dosing and drive technology Accurate mass flow control with weigh scale option	Particle size: 0- 200 pm Dust holding capacity: 6 kg	- -

NUVE PN-150

Description	Test Capability	Test Capability	Sensibility (+/-)
Fuel Filter Oil Filter Air Fitter Test Method: All Standarts TLB.05.1.7	Filter paper tests Plastic materials test Measurement stability Analysis Drying the test dusts Resistance to high temperature Volatility test of chemical materials Resistance	Temperature 0 - 250°C Time schedule 0 - 999 h Program 2"	1°C 1"

ZACO FILTER

COMPREHENSIVE LABORATORY TEST RIG AND TOOLS OF THE LABORATORY

SCHRODER FLAMABILITY TEST RIG

Description	Test Capability	Test Capability	Sensibility (+/-)
Fuel Filter Oil Filter Air Fitter Test Method: All Standarts TLB-05.1.9 DIN 53438 TS ENIS011925-2 TLB-05.1.10	Flame - proof test	Dimension 400 x 810 x 700	-

SARTORIUS Sartocheck° 4 Plus Filter Tester 26288

Description	Test Capability	Test Capability	Sensibility (+/-)
Fuel Filter Oil Filter Air Fitter Test Method: All Standarts	Fully automatich fitter integrity testing device. In full compliance with 21 CFR Part 11. A large accessory package makes Sartocheck 4 plus flexible, powerful! and creates solutions for almost all customer needs.	Measurement scale :	0,1 g

RADWAG A5220

Description	Test Capability	Test Capability	Sensibility (+/-)
Fuel Filter Oil Filter Air Fitter Test Method: All Standarts	Determining of paper weight Weight of test dust Density Volatility tests	Measurement scale : 0 - 210 g	0,1 mg

ZACO FILTER

COMPREHENSIVE LABORATORY TEST RIG AND TOOLS OF THE LABORATORY

SICCO STAR-VITRUM-DESICCATOR HORIZONTAL BOROSIUCATE GLASS 3.3

Description	Test Capability	Test Capability	Sensibility (+/-)
Fuel Filter Oil Filter Air Fitter Test Method: All Standarts	Reinforced aluminium frame with heat-resistant borosilicate glass panels Door with magnetic catch and circular rubber seal For storing hot materials (up to max. 300°C) Very good chemical resistance against aggressive products Variable height shelves made of stainless steel Easy to read electronic hygrometer Telescopic shelve	Measurement scale : 0 - 2200 g	0,001 g

TOPAS SAG 410

Description	Test Capability	Test Capability	Sensibility (+/-
Air Filter Test Method: ISO 5011 ISO 11155-1	Easy to switch dosing range New patented dosing mechanism Possible to feed very low quantities of sample Suitable for dosing and dispersing soot and aluminium oxide	Particle size 0- 200 pm Dust holding capacity 1420 cm3	- -

ZACO FILTER

Filters
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