



TEST1 FILTER SOLUTIONS

www.test1solutions.com





Innovation
industrial
at the **service**
of the **environment.**

THE REFERENCE LAWS

Compressors produce feed water contaminated by pollutants particles as oils.

Those ones can cause a significant environmental impact if the feed water it's not properly treated.

The oil polluted water can't be discharged if the oil particles level is not reduced below the emission limit values.

Discharging no treated feed water means:

- Environmental risks
- Penal offence

The European directive 91/271/CEE in effective about the treatment of waste water, the 91/676/CEE about the protection of the waters between the contamination and the D.Lgs 152/06 specify the limit of concentration of oil allowed in feed water discharged.

Emission limit values:

- **5 mg / l surface waters;**
- **10 mg / l sewer system.**

Compressor waste is discharged into the sewer system and therefore requires compliance with the table limits. For the offense of discharging industrial waters exceeding the tabular limits (Article 137, paragraph 5), an explicit criminal sanction has been envisaged for anyone who, even in the presence of a valid discharge authorization, exceeds the limit values established by law, by the Regions , by the autonomous provinces and by the local authorities.

Test 1 has patented FoamFlex200 a substitute product, more performing than polypropylene in the remediation of hydrocarbon spills at sea and on land. Starting from this concept, the company wanted to test the capabilities of Foam-Flex200, as a substitute material in compressors filters, in place of polypropylene and activated carbons contained in the standard filters.



MISSION

Test1 vision is the development of innovative materials and processes for environmental protection.

The innovations developed and marked by Test1 are focused on increase environmental sustainability in the context of Oil & Gas, factories and others.

Test1 patented FoamFlex200, an innovative material capable of preventing and resolving any oil spill.

FOAMFLEX200











The innovative material patented by Test1, aimed at the prevention and remediation of on and off-shore hydrocarbon spills.

OCF

Environmental protection is not confined in Oil & Gas but it includes more areas. The industrial factories requires advancements to improve the sustainability.

FoamFlex200 performances were therefore **uploaded in O.C.F filtration systems.**

WHY CHOOSE OCF

- 
ENVIRONMENTAL RESPECT
 O.C.F filtering capacity allows to respect emission limit values and reduce the environmental impact due to industrial activities.
- 
HIGHER FILTRATION EFFICIENCY
 According to laboratory and on site tests, O.C.F. filtering system guarantee higher performances than polypropylene and activated carbons, decreasing the concentration of oil under 10 and 5 ppm.
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RELIABILITY DURING THE TIME
 O.C.F has a longer life than standard filters reaching one year of last, maintaining constant performance.
- 
PERFORMANCE ON EVERY TYPE OF OIL
 Oil released by compressors are divided in :
 1. Mineral oils
 2. Synthetic and semi-synthetic oils
 3. Food oils
 Most of oil separators have limited filtration performance on synthetic and semi-synthetic oils, FoamFlex200 has higher performance also for those ones.
- 
REDUCTION OF THE NECESSARY SPACE
 The current oil separators, in most cases require two filtration housing spaces. OCF system, in most cases, allows to reduce the size of the filter.
- 
HALVE DISPOSAL COSTS
 The need for smaller quantities of filter material and the lack of activated carbon in OCF systems contribute to halving disposal costs.
- 
UNIVERSAL USE
 O.C.F. can be used in every housing used by the client.
- 
ABSENCE OF ACTIVATED CARBONS
 The oil separators use, in most cases, the activated carbon in series with the polypropylene. FoamFlex200 allows to remove the activated carbons filter.
- 
EASIER SETUP AND REPLACEMENT
- 
REDUCTION OF THE RISK OF TRACIMA AND PACKAGING
 The soaking oil capability (30/32 times its own weight) reduces the risk of overflow and impaction.



CERTIFICATIONS OLEOPHILIC TECHNOLOGY



PATENTED TECHNOLOGY

Patent in the USA, Europe and internationally.



MINISTRY OF THE ENVIRONMENTAL

Enrolled in the official list of the absorbent products of the Italian Ministry of the environmental and the protection of the territory and the sea (MATTM).



ENVIRONMENTAL DISASTERS

Used for the resolution of big environmental disasters of oil spill by cost guard and fireman.



CERTIFIED LABS

Oleophilic capabilities tested by certified labs under standard international ASTM procedure.



PRIZES AND AWARD

- 1° place CNA Cambiamenti 2017.
- 1° place UnicreditStartLab 2018.
- Selected throught the 10 bests innovations in the world by Oil&Gas Technology Center UK.
- 1° place Fortune Award Change the World -Ecological transition 2021.
- European Commission-Award Winner Invest Horizon Pitching eForum Multisector 2021 (Among the best 12 European green projects for 2021).
- Open Innovative PMI2020 Grant Thornton LLP.
- ALTIS Global Social Venture Competition Audience Award.
- Sustainability and bio-diversity Leader at the sustainability expo gecco 2021.

**BE
READY
WITH US**



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