

The importance of standard development in plastics monitoring

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What is a standard? And what purpose does it serve?

- A voluntary standard is a **reference document** relating to **rules, guidelines** or **characteristics** resulting from a consensus between stakeholders.
- A voluntary standard helps companies and organizations to:
 - Rationalize their production
 - Chose their products, partners, suppliers
 - Transfer or acquire new technologies, skills
- A voluntary standard can also support public policy to protect consumers or environment.



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Organizations in charge of voluntary standard development

- National level : National Standardization Bodies (NSB)
 - NSBs are composed of sector-specific standardization committees responsible for developing national standards and monitoring international/European work.

- European level :





- International level :



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The European and international technical committees developing standards for micro-plastic analyses in environmental matrices

 <p>CEN/TC 230 Water analysis</p>	 <p>ISO/TC 147/SC2 Water quality - Physical, chemical and biochemical methods</p>
<p>EN ISO 16094-1 Water quality -- Analysis of plastics in water -- Part 1: General and sampling</p> <p>EN ISO 16094-2 Water quality -- Analysis of plastics in water -- Part 2: Method using vibrational spectroscopy</p> <p>EN ISO 16094-3 Water quality -- Analysis of plastics in water -- Part 3: Thermo-analytical methods for waters with low content of natural suspended solid</p> <p>EN 16094-4 under development</p>	



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The European and international technical committees developing standards for micro-plastic analyses in environmental matrices



CEN/TC 444 Environmental characterization of solid matrices



ISO/TC190/SC7 Soil quality - Impact assessment
ISO/TC 190/SC3 Soil quality - Chemical and physical characterization

1 project standard on test methods to analyse micro plastics in solid matrices is under discussion.



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The European and international technical committees developing standards for micro-plastic analyses in environmental matrices

 <p>CEN/TC 264 Air Quality</p>	 <p>ISO/TC146 Air Quality</p>
	<p>1 proposal has been made by the Republic of Korea to develop a standard on test methods for the analysis of microplastics in the air</p>



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Other technical committees with standards dealing with microplastic

Plastics	Textiles
ISO/TC 61/SC 14 Plastics – environmental aspects	ISO/TC 38 Textiles
ISO 24187 :2023 - Principles for the analysis of microplastics present in the environment ISO/WD 18957 Determination of the aerobic biodegradation of plastic materials exposed to seawater using accelerated conditions in laboratory	ISO 4484-1:2023 Textiles and textile products – Microplastics from textile sources – Part 1: Determination of material loss from fabrics during washing ISO 4484-2:2023 Textiles and textile products – Microplastics from textile sources – Part 2: Qualitative and quantitative analysis of microplastics



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Voluntary standardization to monitor microplastics pollution

1. Development of technically reliable and cost effective analytical methods: the standardization committees are meeting points between industrial and academic knowledge.
2. The voluntary standardization has been developed to share good practices across the world. In the face of a global pollution this circulation of knowledge seems highly adapted.
3. The voluntary standardization can support the regulation. The regulation establishes limits. The standardization provides reliable methods to control that limits are not exceeded.



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Thank you



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