



**Environmental criteria for sustainable public
procurement of**

Workwear Cleaning Services

Version March 2017

1. Scope/definition

The Workwear Cleaning Services product group covers all work clothing that the authorities hand in for cleaning, with the exception of footwear. The term "cleaning" refers to both water-based laundry methods and dry-cleaning techniques.

The following products (with their corresponding CPV codes) are part of the Workwear Cleaning Services product group. This list is not intended to be exhaustive.



Products	CPV code
Washing and dry-cleaning services	98310000-9
Laundry collection services	98311000-6
Laundry-management services	98311100-7
Textile-cleaning services	98312000-3

This document describes the environmental criteria. Information about the other elements of sustainable public procurement, such as social conditions and social return, may be found on the PIANOo website, on the specific product group page: <https://www.pianoo.nl/document/10560/productgroep-reiniging-bedrijfskleding>.

2. Most significant environmental effects

The table below lists the sustainability themes and describes the approach to each theme for the product group. The "Approach" column presents a statement indicating the influence of sustainable purchasing and its criteria on the "sustainability" of the theme. This column also includes a reference to any requirements, award criteria or points of attention/suggestions that may be useful in implementing the approach. The product group can also have an impact on other environmental themes, but these are (at least at present) less relevant or of a much less significant level of concern, or do not as yet have a suitable set of standard criteria.

Themes:	Approach:	No. of requirement/ Criterion
Energy and climate Energy consumption from cleaning workwear, with corresponding CO ₂ emissions	<ul style="list-style-type: none"> Use equipment that uses residual heat to regenerate the coal filter. 	ME1
	<ul style="list-style-type: none"> Reduce energy consumption. 	GC2, AS1
Supplies and Raw materials Use of harmful substances for cleaning workwear, use of raw materials for new workwear	<ul style="list-style-type: none"> Use equipment with a low-level sensor for PER use coordinated to load weight. 	ME1
	<ul style="list-style-type: none"> Placement of delivery, management and cleaning with a single party. 	AS2

<p>Water and Soil Use of harmful substances for cleaning workwear</p>		<ul style="list-style-type: none"> • Use equipment to minimise the quantity of PER in distillation residue. • Use cleaning technology with liquid CO₂. • Use environmentally-friendly detergents for wet washing. 	<p>ME1, ME2, GC1</p>
<p>Health and welfare Emissions of harmful and hazardous substances for cleaning workwear</p>		<ul style="list-style-type: none"> • Use equipment with a fully emission-free clearing out system. 	<p>ME1</p>

3. Points of attention/suggestions

Devoting attention to the opportunities and possibilities for the most sustainable procurement possible in the preparation phase will lead to specifications that are more ambitious or of different types than the standard technical specifications and award criteria set out in this document. The table below presents points for attention and suggestions for promoting sustainability in procurement within this product group.

No.	Points of attention/suggestions (AS)
AS1	<p>Do not have employees wash their own workwear Do not allow employees to wash their own workwear at home. By and large, home laundry machines are less efficient than professional laundry equipment. Additionally, at home people tend to choose less environmentally friendly cleaning methods.</p>
AS2	<p>Investigate options for arranging all aspects under one contract Explore the possibility of a single contract for the supply, maintenance and cleaning of the clothing. The advantage of such a solution is that the supplier is responsible for all the arrangements and for choosing the best cleaning method. This could be beneficial in environmental terms, because the supplier is likely to clean the items of clothing in such a manner that they last longer, thereby reducing the need for new clothing in due course.</p>

4. Selection criteria

Not defined for this product group.

5. Technical specifications

No.	Technical specifications (ME)
ME1	<p>Dry-cleaning For dry-cleaning with the solvent Perchloroethylene (PER), use "6th generation" PER cleaning equipment. This means cleaning equipment that uses Perchloroethylene to clean items of clothing and satisfies at least the following requirements:</p> <ul style="list-style-type: none"> • The system is equipped with a low-level sensor to prevent using more PER than is absolutely necessary needed for the relevant load of laundry. • The system has an anti-fluff coating (cataphoresis) to prevent a residue build-up inside the water separator. • The system is equipped with an air filter that has been set up in such a manner that the residual heat is used to regenerate the coal filter. • The system is equipped with a fully emission-free clearing out system that has been set up

	<p>in such a manner that the vapour released from the distillation residue is fed back into the distiller.</p> <ul style="list-style-type: none"> The system is equipped with a steam injector that minimises the levels of PER in the distillation residue. <p><i>Verification</i> If dry-cleaning with PER is part of the tender, the tenderer may be asked to demonstrate that 6th generation PER cleaning equipment is used.</p>
ME2	<p>Use environmentally-friendly detergents Use environmentally-friendly and/or biodegradable detergents bearing a type I environmental label for cleaning where no special treatment is required.</p> <p><i>Verification</i> The tenderer may be asked to submit documentation demonstrating compliance with the above criteria. All products with a relevant EU environmental label will be assumed to be in compliance. Products with a different type I environmental label or with an environmental statement that satisfies this criterion will be assumed to be in compliance. Other appropriate forms of evidence, such as a manufacturer's technical file or an approval report from an independent institution, will also be accepted.</p> <p><i>Explanation</i> Type I environmental labelling refers to environmental labels based on an independent test using pre-determined environmental criteria based on a "life-cycle approach"; this type is referred to in popular parlance as an environmental label. Examples in the Netherlands include the Milieukeur label and the EKO label. One European example is the EU Ecolabel. For an explanation of type I environmental labelling, see http://www.nen.nl/NEN-Shop/Norm/NENENISO-140242000-en.htm.</p> <p>If the tenderer sends an MSDS sheet as evidence, the substances specified may be looked up in the REACH Regulation.</p>

6. Award criteria

No.	Award criteria (GC)
GC1	<p><i>(This criterion is applicable only to standard workwear that is not heavily soiled and does not require special treatment)</i></p> <p>Recycling heat and water during wet cleaning With regard to the wet cleaning of standard workwear (not being heavily soiled or requiring special treatment), the tenderer may score additional points by using machines that recycle water and heat.</p> <p><i>Verification</i> The tenderer may be asked to report how much water is used each year for wet cleaning and what percentage of that water is recycled in a subsequent washing process. The tenderer may be asked to demonstrate that heat is recycled, for example by producing technical specifications for the machines it uses.</p>
GC2	<p>Biodegradable detergents If biodegradable detergents are used in washing processes where no special treatment is required, additional points will be awarded for this element.</p> <p>If, in addition, biodegradable detergents are used in several processes where the material is given special treatment, the same number of additional points will be awarded. In this instance, special treatment means impregnation/re-impregnation and bleaching.</p> <p><i>Verification</i> The tenderer may be asked to give the specifications of the detergent to be used for each washing process. To demonstrate that a detergent is biodegradable, the submission of a safety data sheet drawn up in accordance with Annex II of Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, in which the Ecological</p>

	Information states that the detergent is biodegradable, will suffice.
GC3	<p>Beneficial use of waste heat</p> <p>If waste heat from the dry-cleaning process is recycled for, among other things, heating the building, additional points will be awarded for this element.</p> <p>NB: using waste heat to regenerate the carbon filter of PER cleaning equipment will NOT result in additional points being awarded, since the use of 6th-generation PER cleaning equipment is a requirement of the ToR.</p> <p><i>Verification</i></p> <p>The tenderer may be asked to show how waste heat is recovered and recycled.</p>

7. Contract provisions

Not defined for this product group.