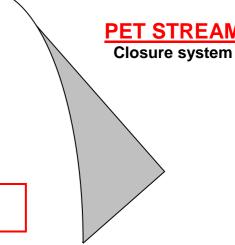
**COmité** Technique de Recyclage des **E**mballages **Plastiques** 



## **GENERAL NOTICE** Technical Sheet

## **SUBJECT**

Behaviour of an aluminium seal in PET bottles recycling.

## **IMPACT SUMMARY TABLE**

Recycling stage	Impact	Description	Consequences
Sorting of bottles	$\triangleleft$	1 bottle with aluminium seal detected,	<ul> <li>Higher losses</li> <li>➤ Increase in waste to be processed</li> </ul>
Pre-washing (optional)	Ø		
Grinding	Ø		
Washing	Ø		
Flake floating and separation	Δ	Aluminium particles are not eliminated and remain in the PET stream	PET stream polluted
Pellet sorting (optional)	Δ	1 aluminium particle detected  ⇒ up to 1,000 non-aluminium flakes ejected	Higher losses     Increase in waste to be processed
Granulation (optional)	Δ	Presence of aluminium particles:   → - Filters blocked  - Channel blocked  - Visual flaws  - Holes, etc	Process disruption - increase in machine stoppages - higher losses • Quality flaws > Increase in waste to be processed
Recycling	Ø		

Caution Ø No impact ☑ Under examination ➤ Environmental consequences

## **GENERAL OPINION**

In the current state of equipment and techniques used and available in Europe, this type of closure significantly disrupts PET bottle recycling.

COTREP recommends studying substitute systems that take inter-material compatibility into account and/or systems that require the seal to be completely removed on opening.

Work is in progress in the relevant trades and this notice is likely to evolve.

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