













**GENERAL NOTICE**  
*Technical Sheet*

**SUBJECT**

Behaviour of a pump with steel parts in PET bottles recycling.

**SUMMARY OF RECLAIMING / RECYCLING IMPACTS**

Recycling stage	Impact	Description	Consequences
 <b>Sorting of bottles</b>		1 bottle with steel part detected, ⇒ up to 5 bottles with no steel parts ejected.	<ul style="list-style-type: none"> <li>• Higher losses</li> <li>➤ <b>Increase in waste to be processed</b></li> </ul>
 <b>Pre-washing</b> (optional)	∅		
 <b>Grinding</b>	∅		
 <b>Washing</b>	∅		
 <b>Flake floating and separation</b>		Steel particles are not eliminated and remain in the PET stream	<ul style="list-style-type: none"> <li>• PET stream polluted</li> </ul>
 <b>Pellet sorting</b> (optional)		1 steel particle detected ⇒ up to 100 non-aluminium flakes ejected	<ul style="list-style-type: none"> <li>• Higher losses</li> <li>➤ <b>Increase in waste to be processed</b></li> </ul>
 <b>Granulation</b> (optional) and  <b>Recycling</b>		Presence of steel particles: ⇒ - Filters plugging - Extrusion die plugging - Visual defects - Holes, etc	Process disruption - increase in machine stoppages - higher losses <ul style="list-style-type: none"> <li>• Quality defects</li> <li>➤ <b>Increase in waste to be processed</b></li> </ul>

 Caution ∅ No impact ⌚ Under examination ➤ **Environmental consequences**

**GENERAL OPINION**

Based on the equipment and technologies currently used and available in Europe, the presence of this closure system significantly disrupts PET bottle recycling.

COTREP recommends studying alternative systems that take into account the compatibility of materials between each other.