Want productivity and accuracy?
You'll be amazed!
No, really.
If you want 100% accuracy in one-second tests, all day long, day after day, after day? Even Aluminum Alloys?
There's only one.

X-250 Scrapper

Designed specifically for the scrap industry by the originators of handheld X-ray gun technology.

Schedule a demo today.

SciAps
(339) 927.9455 SCIAPS.COM
Ultimate Aluminum Alloy Sorting Guide for Handheld XRF

There are traditionally two approaches to sort aluminum alloys with handheld X-ray. The value of these two approaches is determined by the desired testing speed, and how finely the aluminum grades need to be sorted.

<table>
<thead>
<tr>
<th>Degree of Aluminum Sorting</th>
<th>XRF Type</th>
<th>Pros</th>
<th>Cons</th>
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</thead>
<tbody>
<tr>
<td>Basic Sorting</td>
<td>PiN or SDD type guns.</td>
<td>Fast, easy for basic Al sorting.</td>
<td>No measurement of Si or Mg, so cannot reliably separate into more specific grades.</td>
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<td></td>
<td>Most models will do this level of sorting in 1-2 seconds (SDD) or 3-5 seconds (PiNs).</td>
<td>Even least expensive X-ray guns can do this level of sorting.</td>
<td>Frequent mix-ups of common alloy and subsequent downgrades or rejections. For example:</td>
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<td></td>
<td>Anodized material generally has no impact on sorting result, since no magnesium (Mg) or silicon (Si) measurement.</td>
<td>Minimal operator decision-making required.</td>
<td>• 6063/1100 mixes,</td>
</tr>
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<td></td>
<td>If your business only requires a basic level of sorting, this approach may be enough.</td>
<td>Anodized material generally has no impact on sorting result, since no magnesium (Mg) or silicon (Si) measurement.</td>
<td>• Cannot separate between 3000 series grades like 3003/3004/3005/3105,</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>• Calls every 5000 a 5052,</td>
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<td></td>
<td></td>
<td></td>
<td>• Mixes common 2000s like 2014/2024 and mixes in many cast grades,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Mixes 6000s and 3000s.</td>
</tr>
</tbody>
</table>

Advanced Sorting

Measure Mg and Si, allowing for finer sorting by aluminum grade.

X-250
SciAps X-250 provides an ultra-fine level of aluminum grade sorting, with the same speed (1-2 seconds) and simplicity as the basic units.

Cons

Advanced sorting units cost more money, so is the faster, more advanced sorting worth the extra cost of the device?

SciAps, Inc., 7 Constitution Way, Woburn, MA 01801 (339) 927-9455 SCIAPS.COM

How do we do this? Two ways.

Our unique X-ray tube design optimizes fast measurement of magnesium (Mg) and silicon (Si), critical elements to aluminum sorting.


Our patent-pending Aluminum App takes a smarter approach to sorting even highly similar Al alloys.

SciAps is the only XRF that detects the presence of anodized aluminum and warns operator!

For informative videos, go to https://bit.ly/2KtX4ZS

Note: SciAps is the only XRF that detects the presence of anodized aluminum and warns operator!

How do we do this? Two ways. | XRF TECHNOLOGY | BLISTERINGLY FAST |
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