

REDWAVE®

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Application

In general all solid materials, which contain a specific and characteristic element, can be analyzed and separated. This element is used as sorting criteria. The technology of X-ray fluorescence is therefore not limited to one material class or application but can be used in a wide variety of fields. Here are some application examples:

Glass:

- Lead glass
- Glass ceramics
- Ceramics
- Screen glass
- Etc.

Minerals:

- Arsenic minerals
- Mercurial minerals
- Separation of ore with different contents of accepted materials
- Sorting of different minerals according to grade purity
- Etc.

Metals:

- Brass
- Copper
- Stainless steel
- Iron
- Chrome
- Zinc
- Vanadium
- Different varnished metals
- Etc.

Plastics:

- Separation of brominated plastics of shredded plastics
- Etc.

Electronic scrap:

- Separation of electronic scrap coated with non-ferrous metals from shredded electronic scrap
- Separation of boards, etc.

Quality control:

Can be used as online quality control in the above mentioned areas as well as where a characteristic element is existent.

REDWAVE XRF
ADVANTAGES

Cost effectiveness

It is possible to identify and separate different materials such as heat resistant and leaded glass in a single process step and with only one sorting machine.

High performance

Recognition and separation occurs at maximum speed.
For example: A sorting width of 1,3 m enables to sort up to 28 t of cullet per hour.

High recovery rates

Impurities are separated with highest precision.
For example: Impurities in the waste glass for instance, having a cullet size between 8 and 60 mm, can be separated with an accuracy of up to 98%.

Efficiency

There is minimal material waste.
For example: The proportion of glass rejected during the separation of impurities is below 1%.

Regardless of humidity and contamination

High sorting quality will not be impaired by wet / dirty glass or other contaminations such as plastic or paper labels bonded to the glass.

Flexibility

The technology allows quick on-site modification to recalibrate the systems.
Therefore, easily adaptable to changing conditions to meet market demands.

REDWAVE XRF

Material recognition, separation and quality control
with X-ray fluorescence spectrometer



REDWAVE, a trademark of BT-Wolfgang Binder GmbH, Muehlwaldstrasse 21, 8200 Gleisdorf, Austria
Phone: +43 3112 8377-0, Fax: +43 3112 8377-2204, E-mail: office@redwave.at, Web: www.redwave.at

a member of  BT-GROUP

www.redwave.at

