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Manufacturing Declaration

Sieve – Stainless steel

- Sieve frames, receivers and lids are constructed from AISI 304L stainless steel
- Frame thickness varies depending on the diameter of the sieve:
    - Less than 200mm – 0.45mm
    - 200mm / 8" and larger – 0.70mm
- Sieve frames, receivers and lids for 200mm / 8" components are electro-polished to ensure corrosion resistance. Material used during electro-polishing – POLIGRAT E 268 K.
- All other diameter size components are naturally bright with an annealed finish or manually polished and cleaned. Any polish residue is removed prior to assembly.

Sieve – Brass

- Brass sieve frames, receivers and lids varies depending on the diameter of the sieve:
    - 200mm / 8" components – 90:10 Cu:Zn and 0.45mm in thickness
    - Larger than 200mm / 8" – 70:30 Cu:Zn and 0.70mm in thickness
- All diameter size components are manually polished, cleaned and lacquered on the outside.

Woven wire mesh sieves

- The stainless steel woven wire mesh steel type is dependent on the aperture size.
    - For apertures of 20µm to 2.50mm the material is 316L stainless steel.
    - For apertures of 2.80mm to 125.0mm the material is 304 stainless steel.
- Full traceability is available from the material supplier for woven wire mesh.
- The mesh used in Endecotts test sieves is inspected in line with clause 5.2 of ISO 3310-1:2016 or clause 5 of ASTM E11-20 (or the relevant clause of the required specification) during the manufacturing process.

Perforated Plate sieves

- The plate used for perforated plate sieves are AISI 304L stainless steel.
- The plate used in Endecotts perforated metal plate test sieves is inspected in line with clause 5.2 of ISO 3310-2:2013 (or the relevant clause of the required specification) during the manufacturing process.
- Plate thickness varies according to the sieve diameter as specified in clause 5.1.3 of ISO 3310-2:2013 (or the relevant clause of the required specification)

Solder – Electro-welding

- Mesh and perforated plate are secured to the sieve frame by either lead-free solder or electro welding. No additional material used for electro-welding.
    - Solder – SN100C Lead free solder (65:35 Cu:Sn)

Sieve seal and O-rings

- Various methods are used to seal the sieve at the point where the woven wire mesh meets the frame to prevent any sample loss. The seal used is dependant on the sieve diameter and mesh aperture.
    - Sieves with a diameter less than 200m and aperture 20µm to 850µm use an Epoxy Low Aluminium seal (IP-715A with reducer)
    - Brass Sieves with a diameter of 200mm or 8” and aperture 20µm to 850µm use an Epoxy Low Aluminium seal (IP-715A with reducer)
    - Stainless steel sieves with diameter of 200mm or 8” and apertures 20 µm to 12.5mm are not sealed due to electro-welding process
    - Sieves with a diameter larger than 200mm or 8” and aperture 20 µm to 12.5mm are fitted with black Neoprene sponge rubber (EXN16).
    - All Brass sieve frames are coated with Ercalene Colourless lacquer to prevent oxidisation.
- O-ring supplied with 200mm and 8” stainless steel sieve is Erthylene Propylene rubber EPDM 70.

All goods are manufactured and inspected under a Quality Management System to BS EN ISO 9001:2015, registered with BSI, to ensure compliance with order instructions.

In all cases, Endecotts reserves the right to vary its method of manufacture to suit demand and operational parameters.