

Directive 2014/68/EU

Adopted by CLAP : 13/06/2018

Directive References: Annex I

Subject: Application of "Material" and " Manufacturing" to pressure equipment or to components made by additive manufacturing**Question:** How to apply material and manufacturing requirements of PED to pressure equipment or to components of pressure equipment made by additive manufacturing from metal powder?**Answer:** Additive manufacturing of pressure equipment or components of pressure equipment, made of metal powder according to «powder bed fusion» or «directed energy deposition» as defined in EN ISO/ASTM 52900:2017 standard, shall be considered as a material making process and not as a permanent joining:

- The ESR on materials (see point 4 of Annex I of the PED) shall be complied with in their entirety :
 - o The material manufacturer, in charge of the material making process shall take into account ESR 4.3,
 - o The manufacturer of pressure equipment or components of pressure equipment shall take into account ESR 4.1 and 4.2 ;
- The ESR on manufacturing (see point 3 of Annex I of the PED) shall be complied with in their entirety by the manufacturer of pressure equipment or of components of pressure equipment.

Note: The raw material supplier, different from material manufacturer, is the powder supplier.