

DIN EN ISO 28763:2019-12 (E)

Vitreous and porcelain enamels - Regenerative, enamelled and packed panels for air-gas and gas-gas heat exchangers - Specifications (ISO 28763:2019)

Contents		Page
European foreword		3
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Steel substrates	6
4.1	Delivery.....	6
4.2	Analysis.....	6
4.3	Hydrogen permeability.....	6
4.4	Fish scaling test.....	6
4.5	Pickling speed.....	7
5	Enamel frit	7
5.1	Delivery.....	7
5.2	Coefficient of expansion.....	7
5.3	Fusion flow.....	7
5.4	Boiling-water (vapour phase) resistance.....	7
5.5	Acid resistance.....	7
5.6	Thermal-shock resistance.....	8
5.7	Adherence.....	8
6	Characteristics of the enamel coating	8
6.1	Adherence.....	8
6.2	Thickness.....	8
6.3	Thermal-shock resistance.....	9
6.4	Fundamental defects.....	9
6.5	Open defects.....	9
6.6	Edge covering of gas-gas heaters.....	10
6.7	Boiling sulfuric acid resistance.....	10
6.8	Rework.....	10
7	Characteristics after packing	10
7.1	Packing pressure.....	10
7.2	Visual examination.....	10
7.3	Edge covering of gas-gas heaters.....	11
8	Documentation	11
Annex A (normative) Method for determining thermal-shock resistance of vitreous or porcelain enamel coatings		12