

ISO 28763:2008-10 (E)

Vitreous and porcelain enamels - Regenerative, enamelled and packed panels for air-gas and gas-gas heat exchangers - Specifications

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