|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **A型(不加固型)矩形容器壁板计算** | | 计算单位 |  | | |
| 计算所依据的标准 | | | **NB/T 47003.1-2009** | | |
| **计 算 条 件** | | | **壁 板 简 图** | | |
| 设计温度, t | ℃ | **$$001** | 壁板  $07  $08 | | |
| 介质密度, ρ | kg/m³ | **$$002** |
| 材料标准号 | **$$003** | |
| 材料牌号/名称 | **$$004** | |
| 腐蚀裕量, C2 | mm | **$$005** |
| 名义厚度, δn | mm | **$$006** |
| 宽度, L | mm | **$$007** |
| 高度, H | mm | **$$008** |
| **材 料 特 性** | | | | | |
| 密度, ρ0 | kg/m³ | **$$009** | 设计温度许用应力, [σ]t | MPa | **$$011** |
| 材料负偏差, C1 | mm | **$$010** | 设计温度下弹性模量, Et | 103×MPa | **$$012** |
| **过 程 参 数** | | | | | |
| 重力加速度, g | m/s2 | g = 9.81 | | | **9.81** |
| 静压力, Pc | MPa | Pc = ρgH×10-9 | | | **$$014** |
| 厚度附加量, C | mm | C = C1 + C2 | | | **$$015** |
| 有效厚度, δe | mm | δe = δn - C | | | **$$016** |
| 边长比, H/L | / | H/L | | | **$$017** |
| 应力计算系数, α | / | 以 H/L 查图 8-5 | | | **$$018** |
| 挠度计算系数, β | / | 以 H/L 查图 8-5 | | | **$$019** |
| **厚 度 计 算 及 校 核** | | | | | |
| 壁板计算厚度, δc | mm |  | | | **$$020** |
| 设计厚度, δd | mm | δd = δc + C2 | | | **$$021** |
| 厚度校核 | / | δn ≥ δd + C1 | | | **$$022** |
| **挠 度 计 算 及 校 核** | | | | | |
| 壁板许用挠度, [f] | mm |  | | | **$$023** |
| 壁板最大挠度, fmax | mm |  | | | **$$024** |
| 挠度校核 | / | fmax ≤ [f] | | | **$$025** |