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| --- | --- | --- | --- | --- | --- | --- |
| **填料栅板强度校核** | | | 计算单位 |  | | |
| 计算所依据的标准 | | | | **SH/T 3098-2011** | | |
| **计 算 条 件** | | | | **计 算 简 图** | | |
| 设计温度, t | | °C | **$$001** | 填料  栅板  $09  $12  $08  $07  $06 | | |
| 填料层所持液体密度, γL | | kg/m3 | **$$002** |
| 格 栅 板 | 材料标准号 | **$$003** | |
| 材料牌号/名称 | **$$004** | |
| 腐蚀裕量, C2 | mm | **$$005** |
| 高度, h | mm | **$$006** |
| 名义厚度, δn | mm | **$$007** |
| 长度, L | mm | **$$008** |
| 间距, Δ | mm | **$$009** |
| 填 料 | 填料类型 | **$$010** | |
| 堆积密度, γ | kg/m3 | **$$011** |
| 高度, H | mm | **$$012** |
| **材 料 特 性** | | | | | | |
| 密度, ρ | | kg/m³ | **$$013** | 设计温度许用应力, [σ]t | MPa | **$$015** |
| 常温屈服点, ReL | | MPa | **$$014** | 材料负偏差, C1 | mm | **$$016** |
| **过 程 参 数** | | | | | | |
| 厚度附加量, C | | mm | C = C1 + C2 | | | **$$017** |
| 有效厚度, δe | | mm |  | | | **$$018** |
| 重力加速度, g | | m/s2 | g = 9.8 | | | **9.8** |
| 填料质量, mp | | kg | mp = H×Δ×L×γ | | | **$$020** |
| 持液系数, k | | / | k=0.35, 散装填料; k = 0.05, 波网填料 | | | **$$021** |
| 填料层静持液质量, mL | | kg | mL = k×H×Δ×L×γL | | | **$$022** |
| **强 度 校 核** | | | | | | |
| 格栅板均布载荷, q | | N/mm |  | | | **$$023** |
| 最大弯曲应力, σ | | MPa |  | | | **$$024** |
| 应力校核 | | / | σ <= [σ]t | | | **$$025** |