**Tabel 1** Konstanta Laju Korosi. [10]

|  |  |
| --- | --- |
| Satuan laju korosi | Konstanta (K) |
| Mils per year (mpy) | 3,4 x 10⁶ |
| Inches per year (ipy) | 3,45 x 10³ |
| Millimeters per year (mm/y) | 8,76 x 10⁴ |
| Micrometers per year (μm/y) | 8,76 x 10⁷ |
| Picometer per second (pm/s) | 2,87 x 10⁶ |

**Tabel 2**. Komposisi Kimia STPG370 (Unit: %)

Sifat Mekanik

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Penunjukan nilai | C maks | Si maks | Mn maks | P maks | S maks |
| STPG370 | 0,25 | 0,35 | 0,30-0,90 | 0,040 | 0,040 |

**Tabel 3**. Sifat Mekanik STPG370

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Penunjukan nilai | Kekuatan tarik Mpa min | Kekuatan hasil Mpa min | Elongasi % menit |  |
|  |  |  | Longitudinal | Melintang |
| STPG370 | 370 | 215 | 30 | 25 |

**Tabel 4**. Simbol Perwakilan dari Proses Produksi. [12]

|  |  |  |
| --- | --- | --- |
| Penunjukan nilai | Penunnjukan proses manufaktur |  |
|  | Proses mnufaktur tabung | Metode pebentukan dan penyelesaian |
| STPG370 | Mulus:S  Pengelasan  Ketahanan listrik: E | Hot selesai: H  Dingin seslesai: C  Selain selesai panas dan dingin selesai: G |

**Tabel 5** Besaran Arus Pengelasan Pengelasan Spesimen Pipa STPG370 SCH80 125A.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| KODE | Faktor Kontrol |  | Faktor Level |  |
|  | Jenis Kawat | Root pass/amper | Filler pass /ampere | Caping pass/ampere |
| LB | LB52U | 70 | 80 | 85 |
| RC | RC52U | 70 | 80 | 85 |
| LB+ALT | LB52U+Atlantic E6013 | 70 | 90 | 100 |
| RC+ALT | RC52U+Atlantic E6013 | 70 | 90 | 100 |

**Tabel 6.** Dari Uji Korosi Basah Didapatkan Nilai CPR

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| data nilai CPR hasil uji korosi | | | | | |
| Sampel | mo (gr) | m (gr) | W= (mo-m) | rata-rata | CPR (mm/yr) |
|
| LB52U 1 | 183.4835 | 183.4775 | 0.006019 | 0.005907 | 1.027 |
| LB52U 2 | 178.9106 | 178.9039 | 0.006655 |
| LB52U 3 | 183.4331 | 183.4281 | 0.005047 |
| RC52U 1 | 203.7576 | 203.7532 | 0.004441 | 0.0044405 | 0.772 |
| RC52U 2 | 210.9515 | 210.9470 | 0.004505 |
| RC52U 3 | 206.5928 | 206.5884 | 0.004376 |
| LB52U + Atl E-6013 1 | 181.6423 | 181.6380 | 0.004274 | 0.004416 | 0.768 |
| LB52U + Atl E-6013 2 | 189.7482 | 189.7441 | 0.004071 |
| LB52U + Atl E-6013 3 | 188.5607 | 188.5558 | 0.004903 |
| RC52U + Atl E-6013 1 | 154.334 | 154.3295 | 0.004483 | 0.004754 | 0.827 |
| RC52U + Atl E-6013 2 | 166.268 | 166.2632 | 0.004830 |
| RC52U + Atl E-6013 3 | 181.1589 | 181.1540 | 0.004950 |