

DYNAMIC DESCALER
CORROSION RATE CHERT

| NO | MAT'L | 1:1WATER OR 100% D.D. | TEST TIME (hr) | WAIIGHT (g) | | | SURFACE ARIA CALC. | | | TEST SPECIMEN SURFACE ARIA (cm ²) | CORROSION VOLUME (mdd) | CORROSION RATE (mm/year) | CORROSION RATE (mm/day) | CORROSION VOLUME (mg/cm2) | CORROSION RATE (%/cm2) | RYDELYME CORROSION VOLUME (%/cm2) | COMPARE WITH RYDE LYME | |
|----|------------------------------------|-----------------------------|----------------------|-------------|---------|------------------|--|---------|-----------|---|------------------------------|--------------------------------|-------------------------------|---------------------------------|------------------------------|--|------------------------------|-----------|
| | | | | TEST POINT | | DIFFERENCE (b-a) | DIMENSION CHECK (mm) ※THREE POINT AVERAGE | | | | | | | | | | | |
| | | | | BEFORE-a | AFTER-b | | LENGTH | WIDTH | THICKNESS | | | | | | | | | |
| SB | SB410 (CARBON STEEL) | 50 | 2 | 37.4633 | 37.4600 | | -0.0033 | 50.0710 | 50.0653 | 1.9337 | 54.01 | 73.3713 | 0.3407 | 0.00093 | -0.0611 | -0.00016% | -0.00089% | 18/100 |
| | | | 5 | 37.0597 | 37.0552 | | -0.0045 | 50.0347 | 50.0987 | 1.9193 | 53.98 | 40.0443 | 0.1860 | 0.00051 | -0.0834 | -0.00022% | -0.00154% | 15/100 |
| | | | 12 | 37.4817 | 37.4712 | | -0.0105 | 50.0487 | 50.1103 | 1.9357 | 54.04 | 38.8892 | 0.1806 | 0.00049 | -0.1943 | -0.00052% | -0.00293% | 18/100 |
| | | 100 | 2 | 37.4687 | 37.4658 | | -0.0029 | 50.0137 | 50.0157 | 1.9310 | 53.89 | 64.6173 | 0.3001 | 0.00082 | -0.0538 | -0.00014% | -0.00099% | 15/100 |
| | | | 5 | 37.2984 | 37.2929 | | -0.0055 | 50.0190 | 50.0843 | 1.9240 | 53.96 | 48.9629 | 0.2274 | 0.00062 | -0.1019 | -0.00027% | -0.00203% | 13/100 |
| | | | 12 | 37.4344 | 37.4248 | | -0.0096 | 50.0333 | 50.0843 | 1.9313 | 53.98 | 35.5898 | 0.1653 | 0.00045 | -0.1778 | -0.00048% | -0.00489% | 10/100 |
| S | SUS304 (STAINLE SS STEEL) | 50 | 2 | 37.7234 | 37.7198 | | -0.0036 | 50.2110 | 50.1250 | 1.9133 | 54.18 | 79.7946 | 0.3650 | 0.00100 | -0.0665 | -0.00018% | -0.00029% | 61/100 |
| | | | 5 | 37.7279 | 37.7223 | | -0.0056 | 50.1543 | 50.1793 | 1.9193 | 54.19 | 49.6412 | 0.2271 | 0.00062 | -0.1033 | -0.00027% | -0.00059% | 46/100 |
| | | | 12 | 37.7086 | 37.6994 | | -0.0092 | 50.1557 | 50.1283 | 1.9130 | 54.12 | 34.0210 | 0.1556 | 0.00043 | -0.1700 | -0.00045% | -0.00125% | 36/100 |
| | | 100 | 2 | 37.7694 | 37.7671 | | -0.0023 | 50.1073 | 50.1607 | 1.9227 | 54.12 | 51.0290 | 0.2334 | 0.00064 | -0.0425 | -0.00011% | -0.00023% | 49/100 |
| | | | 5 | 37.7387 | 37.7343 | | -0.0044 | 50.1713 | 50.1380 | 1.9170 | 54.16 | 39.0254 | 0.1785 | 0.00049 | -0.0812 | -0.00022% | -0.00046% | 47/100 |
| | | | 12 | 37.7061 | 37.6978 | | -0.0083 | 50.1603 | 50.1787 | 1.9187 | 54.19 | 30.6540 | 0.1402 | 0.00038 | -0.1532 | -0.00041% | -0.00098% | 41/100 |
| A | A5052 (ALUMINUM) | 50 | 2 | 13.2992 | 13.2916 | | -0.0076 | 50.0010 | 50.4113 | 1.9807 | 54.39 | 167.7927 | 2.2767 | 0.00624 | -0.1397 | -0.00105% | -0.00862% | 12/100 |
| | | | 5 | 13.3010 | 13.2840 | | -0.0170 | 50.0027 | 50.4097 | 1.9790 | 54.39 | 150.1395 | 2.0372 | 0.00558 | -0.3126 | -0.00235% | -0.02989% | 8/100 |
| | | | 12 | 13.3025 | 13.1737 | | -0.1288 | 49.9837 | 50.3997 | 1.9790 | 54.36 | 474.2340 | 6.4348 | 0.01763 | -2.3695 | -0.01781% | -0.12837% | 14/100 |
| | | 100 | 2 | 13.2918 | 10.9494 | | -2.3424 | 50.0487 | 50.3927 | 1.9760 | 54.41 | 51695.3767 | 701.4428 | 1.92176 | -43.0500 | -0.32388% | -0.00781% | 41 45/100 |
| | | | 5 | 13.3022 | 8.9959 | | -4.3063 | 50.3927 | 50.0227 | 1.9763 | 54.38 | 38033.5604 | 516.0688 | 1.41389 | -79.1823 | -0.59526% | -0.02660% | 22 38/100 |
| | | | 12 | 13.3032 | 8.3739 | | -4.9293 | 50.3740 | 50.0507 | 1.9780 | 54.40 | 18135.5574 | 246.0773 | 0.67418 | -90.6157 | -0.68116% | -0.15043% | 4 53/100 |
| C | Cu-0.03P (COPPER) | 50 | 2 | 45.0968 | 45.0928 | | -0.0040 | 50.2300 | 50.3287 | 2.0113 | 54.61 | 87.9637 | 0.3591 | 0.00098 | -0.0733 | -0.00016% | -0.00445% | 4/100 |
| | | | 5 | 45.1218 | 45.1136 | | -0.0082 | 50.2220 | 50.3893 | 2.0150 | 54.67 | 72.0480 | 0.2942 | 0.00081 | -0.1500 | -0.00033% | -0.00397% | 8/100 |
| | | | 12 | 45.0717 | 45.0542 | | -0.0175 | 50.2113 | 50.3547 | 2.0117 | 54.61 | 64.1305 | 0.2618 | 0.00072 | -0.3204 | -0.00071% | -0.00117% | 61/100 |
| | | 100 | 2 | 44.9693 | 44.9659 | | -0.0034 | 50.2300 | 50.2357 | 2.0033 | 54.49 | 74.9246 | 0.3059 | 0.00084 | -0.0624 | -0.00014% | -0.00205% | 7/100 |
| | | | 5 | 45.0799 | 45.0726 | | -0.0073 | 50.2880 | 50.3557 | 2.0060 | 54.68 | 64.1217 | 0.2618 | 0.00072 | -0.1335 | -0.00030% | -0.00542% | 5/100 |
| | | | 12 | 45.0688 | 45.0511 | | -0.0177 | 50.3027 | 50.3310 | 2.0057 | 54.67 | 64.7936 | 0.2645 | 0.00072 | -0.3237 | -0.00072% | -0.00580% | 12/100 |
| CZ | Cu-30Zn (COPPER +ZINK) | 50 | 2 | 42.5853 | 42.5826 | | -0.0027 | 50.2537 | 50.0100 | 2.0237 | 54.32 | 59.6855 | 0.2554 | 0.00070 | -0.0497 | -0.00012% | -0.00145% | 8/100 |
| | | | 5 | 42.8876 | 42.8824 | | -0.0052 | 50.2600 | 50.3143 | 2.0280 | 54.66 | 45.6993 | 0.1955 | 0.00054 | -0.0951 | -0.00022% | -0.00553% | 4/100 |
| | | | 12 | 42.8820 | 42.8711 | | -0.0109 | 50.3187 | 50.2450 | 2.0300 | 54.65 | 39.9189 | 0.1708 | 0.00047 | -0.1995 | -0.00047% | -0.00711% | 7/100 |
| | | 100 | 2 | 42.8827 | 42.8804 | | -0.0023 | 50.3157 | 50.3173 | 2.0237 | 54.71 | 50.4843 | 0.2160 | 0.00059 | -0.0420 | -0.00010% | -0.00338% | 3/100 |
| | | | 5 | 42.8385 | 42.8335 | | -0.0050 | 50.2853 | 50.2667 | 2.0250 | 54.63 | 43.9653 | 0.1881 | 0.00052 | -0.0915 | -0.00021% | -0.00446% | 5/100 |
| | | | 12 | 42.9053 | 42.8956 | | -0.0097 | 50.3100 | 50.2257 | 2.0290 | 54.62 | 35.5445 | 0.1521 | 0.00042 | -0.1776 | -0.00041% | -0.00714% | 6/100 |
| Z | Zn (Zink) | 50 | 2 | 39.2059 | 39.1308 | | -0.0751 | 50.1437 | 54.5033 | 2.0183 | 58.88 | 1531.5100 | 7.8733 | 0.02157 | -1.2754 | -0.00325% | -0.04631% | 7/100 |
| | | | 5 | 39.3594 | 39.2421 | | -0.1173 | 50.1400 | 54.5267 | 2.0300 | 58.93 | 956.1124 | 4.9152 | 0.01347 | -1.9905 | -0.00506% | -0.13915% | 4/100 |
| | | | 12 | 40.1308 | 39.8802 | | -0.2506 | 50.0440 | 55.5000 | 2.0223 | 59.82 | 838.4524 | 4.3104 | 0.01181 | -4.1894 | -0.01044% | -0.59437% | 2/100 |
| | | 100 | 2 | 40.1894 | 40.0564 | | -0.1330 | 50.1063 | 55.6000 | 2.0207 | 59.99 | 2662.2573 | 13.6863 | 0.03750 | -2.2170 | -0.00552% | -0.00730% | 76/100 |
| | | | 5 | 39.3044 | 38.9752 | | -0.3292 | 50.1083 | 54.5700 | 2.0200 | 58.92 | 2683.8364 | 13.7972 | 0.03780 | -5.5875 | -0.01422% | -0.01802% | 79/100 |
| | | | 12 | 40.4185 | 38.7976 | | -1.6209 | 50.1120 | 56.0500 | 2.0203 | 60.47 | 5365.1028 | 27.5812 | 0.07556 | -26.8072 | -0.06632% | -0.02382% | 2 78/100 |