

**GILES CHEMICAL ~ PREMIER MAGNESIA****Company Form**Title: **Chart Showing %MgSO₄**Number: **L12-PR-100-F033**Owner: **Carl Mooney**Revision: **0**Effective Date: **06/26/09**Page: **1 of 1****CHART SHOWING % MgSO₄****vs.****SPECIFIC GRAVITY and TEMPERATURE**

| PERCENT MgSO ₄ | | | | | | | | | | | | |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| TEMP | 27% | 28% | 29% | 30% | 31% | 32% | 33% | 34% | 35% | 36% | 37% | 38% |
| 22 | 1.3082 | 1.3220 | 1.3356 | 1.3491 | 1.3630 | 1.3768 | 1.3909 | 1.4050 | 1.4194 | 1.4338 | 1.4475 | 1.4631 |
| 24 | 1.3075 | 1.3213 | 1.3349 | 1.3484 | 1.3623 | 1.3761 | 1.3902 | 1.4043 | 1.4187 | 1.4331 | 1.4468 | 1.4624 |
| 26 | 1.3069 | 1.3207 | 1.3343 | 1.3478 | 1.3617 | 1.3755 | 1.3896 | 1.4037 | 1.4181 | 1.4325 | 1.4462 | 1.4618 |
| 28 | 1.3062 | 1.3200 | 1.3336 | 1.3471 | 1.3610 | 1.3748 | 1.3889 | 1.4030 | 1.4174 | 1.4318 | 1.4455 | 1.4611 |
| 30 | 1.3056 | 1.3194 | 1.3330 | 1.3465 | 1.3604 | 1.3742 | 1.3883 | 1.4024 | 1.4168 | 1.4312 | 1.4449 | 1.4605 |
| 32 | 1.3047 | 1.3185 | 1.3321 | 1.3456 | 1.3595 | 1.3733 | 1.3874 | 1.4015 | 1.4159 | 1.4303 | 1.4440 | 1.4596 |
| 34 | 1.3038 | 1.3176 | 1.3312 | 1.3447 | 1.3586 | 1.3724 | 1.3865 | 1.4006 | 1.4150 | 1.4294 | 1.4431 | 1.4587 |
| 36 | 1.3029 | 1.3167 | 1.3303 | 1.3438 | 1.3577 | 1.3715 | 1.3856 | 1.3997 | 1.4141 | 1.4285 | 1.4422 | 1.4578 |
| 38 | 1.3020 | 1.3158 | 1.3294 | 1.3429 | 1.3568 | 1.3706 | 1.3847 | 1.3988 | 1.4132 | 1.4276 | 1.4413 | 1.4569 |
| 40 | 1.3011 | 1.3149 | 1.3285 | 1.3420 | 1.3559 | 1.3697 | 1.3838 | 1.3979 | 1.4123 | 1.4267 | 1.4404 | 1.4560 |
| 42 | 1.3000 | 1.3138 | 1.3274 | 1.3409 | 1.3548 | 1.3686 | 1.3827 | 1.3968 | 1.4112 | 1.4256 | 1.4393 | 1.4549 |
| 44 | 1.2989 | 1.3127 | 1.3263 | 1.3398 | 1.3537 | 1.3675 | 1.3816 | 1.3957 | 1.4101 | 1.4245 | 1.4382 | 1.4538 |
| 46 | 1.2979 | 1.3117 | 1.3253 | 1.3388 | 1.3527 | 1.3665 | 1.3806 | 1.3947 | 1.4091 | 1.4235 | 1.4372 | 1.4528 |
| 48 | 1.2968 | 1.3106 | 1.3242 | 1.3377 | 1.3516 | 1.3654 | 1.3795 | 1.3936 | 1.4080 | 1.4224 | 1.4361 | 1.4517 |
| 50 | 1.2957 | 1.3095 | 1.3231 | 1.3366 | 1.3505 | 1.3643 | 1.3784 | 1.3925 | 1.4069 | 1.4213 | 1.4350 | 1.4506 |
| 52 | 1.2944 | 1.3082 | 1.3218 | 1.3353 | 1.3492 | 1.3630 | 1.3771 | 1.3912 | 1.4056 | 1.4200 | 1.4337 | 1.4493 |
| 54 | 1.2931 | 1.3069 | 1.3205 | 1.3340 | 1.3479 | 1.3617 | 1.3758 | 1.3899 | 1.4043 | 1.4187 | 1.4324 | 1.4480 |
| 56 | 1.2919 | 1.3057 | 1.3193 | 1.3328 | 1.3467 | 1.3605 | 1.3746 | 1.3887 | 1.4031 | 1.4175 | 1.4312 | 1.4468 |
| 58 | 1.2906 | 1.3044 | 1.3180 | 1.3315 | 1.3454 | 1.3592 | 1.3733 | 1.3874 | 1.4018 | 1.4162 | 1.4299 | 1.4455 |
| 60 | 1.2893 | 1.3031 | 1.3167 | 1.3302 | 1.3441 | 1.3579 | 1.3720 | 1.3861 | 1.4005 | 1.4149 | 1.4286 | 1.4442 |
| 62 | 1.2879 | 1.3017 | 1.3153 | 1.3288 | 1.3427 | 1.3565 | 1.3706 | 1.3847 | 1.3991 | 1.4135 | 1.4272 | 1.4428 |
| 64 | 1.2865 | 1.3003 | 1.3139 | 1.3274 | 1.3413 | 1.3551 | 1.3692 | 1.3833 | 1.3977 | 1.4121 | 1.4258 | 1.4414 |
| 66 | 1.2850 | 1.2988 | 1.3124 | 1.3259 | 1.3398 | 1.3536 | 1.3677 | 1.3818 | 1.3962 | 1.4106 | 1.4243 | 1.4399 |
| 68 | 1.2836 | 1.2974 | 1.3110 | 1.3245 | 1.3384 | 1.3522 | 1.3663 | 1.3804 | 1.3948 | 1.4092 | 1.4229 | 1.4385 |
| 70 | 1.2822 | 1.2960 | 1.3096 | 1.3231 | 1.3370 | 1.3508 | 1.3649 | 1.3790 | 1.3934 | 1.4078 | 1.4215 | 1.4371 |
| 72 | 1.2808 | 1.2946 | 1.3082 | 1.3217 | 1.3356 | 1.3494 | 1.3635 | 1.3776 | 1.3920 | 1.4064 | 1.4201 | 1.4357 |
| 74 | 1.2793 | 1.2931 | 1.3067 | 1.3202 | 1.3341 | 1.3479 | 1.3620 | 1.3761 | 1.3905 | 1.4049 | 1.4186 | 1.4342 |
| 76 | 1.2779 | 1.2917 | 1.3053 | 1.3188 | 1.3327 | 1.3465 | 1.3606 | 1.3747 | 1.3891 | 1.4035 | 1.4172 | 1.4328 |
| 78 | 1.2764 | 1.2902 | 1.3038 | 1.3173 | 1.3312 | 1.3450 | 1.3591 | 1.3732 | 1.3876 | 1.4020 | 1.4157 | 1.4313 |
| 80 | 1.2750 | 1.2888 | 1.3024 | 1.3159 | 1.3298 | 1.3436 | 1.3577 | 1.3718 | 1.3862 | 1.4006 | 1.4143 | 1.4299 |

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