Table 1. The Result of the Initial Trial with Several PH Adjuster Additive

|  |  |  |  |
| --- | --- | --- | --- |
| Prosentase PH Adjuster | rpm | T in (0C) | T out (0C) |
| PH Adjuster 0 % | 1000 | 53,4 | 44,8 |
| 3000 | 66,0 | 62,9 |
| 5000 | 77,8 | 76,1 |
| 1000 | 50,4 | 38,3 |
| PH Adjuster 3% | 3000 | 58,8 | 52,3 |
| 5000 | 75,6 | 75,2 |
| PH Adjuster 5% | 3000 | 57,3 | 47,5 |
| 5000 | 74,3 | 73,2 |

Table 2. Experiments for the Two Variations of PH Adjuster Additives

|  |  |  |  |
| --- | --- | --- | --- |
| Percentage PH Adjuster | rpm | T in (0C) | T out (0C) |
| PH Adjuster 0 % | 1000 | 72,3 | 65,7 |
| 3000 | 81,1 | 75,8 |
| 5000 | 79,5 | 77,4 |
| 1000 | 62,9 | 54,9 |
| PH Adjuster 3 % | 3000 | 78,8 | 57,9 |
| 5000 | 78,9 | 77,3 |
| 1000 | 59,4 | 54,1 |
| PH Adjuster 5 % | 3000 | 73,3 | 53,8 |
| 5000 | 77,5 | 75,4 |

Table 3. Experiments on the Three PH Adjuster Additives Variants

|  |  |  |  |
| --- | --- | --- | --- |
| Percentage PH Adjuster | rpm | T in (0C) | T out (0C) |
| PH Adjuster 0 % | 1000 | 80,5 | 70,3 |
| 3000 | 85,0 | 82,9 |
| 5000 | 83,7 | 79,8 |
| 1000 | 64,2 | 61,5 |
| PH Adjuster 3 % | 3000 | 82,2 | 75,5 |
| 5000 | 82,6 | 78,2 |
| 1000 | 61,4 | 56,5 |
| PH Adjuster 5 % | 3000 | 78,1 | 72,3 |
| 5000 | 80,2 | 77,8 |

Table 4. Heat Dissipation of 0% PH Adjuster Additive Variations

|  |  |  |  |
| --- | --- | --- | --- |
| Trial Series | Rpm 1000 (°C) | Rpm 3000 (°C) | Rpm 5000 (°C) |
| 1 | 8,6 | 3,1 | 1,7 |
| 2 | 6,6 | 5,3 | 2,1 |
| 3 | 10,2 | 2,1 | 3,9 |
| Average | 8,46 | 3,5 | 2,56 |

Table 5. Heat Dissipation of 3% PH Adjuster Additive Variations

|  |  |  |  |
| --- | --- | --- | --- |
| Trial Series | Rpm 1000 (°C) | Rpm 3000 (°C) | Rpm 5000 (°C) |
| 1 | 12,1 | 6,5 | 0,4 |
| 2 | 8,0 | 20,9 | 1,6 |
| 3 | 2,7 | 6,7 | 4,4 |
| Average | 7,6 | 11,36 | 2,13 |

Table 6. Heat Dissipation of 5% PH Adjuster Additive Variations

|  |  |  |  |
| --- | --- | --- | --- |
| Trial Series | Rpm 1000 (°C) | Rpm 3000 (°C) | Rpm 5000 (°C) |
| 1 | 4,6 | 9,8 | 1,1 |
| 2 | 5,3 | 19,5 | 2,1 |
| 3 | 4,9 | 5,8 | 2,4 |
| Average | 4,93 | 11,7 | 1,86 |

Table 7. Tests of Normality for Variations in 0% PH Adjuster Additives

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Normality** | | | | | | | |
| Kolmogorov-Smirnova | | | | | Shapiro-Wilk | | |
|  | RPM | Statistic | df | Sig. | Statistic | df | Sig. |
| Results | RPM1000 | .196 | 3 | . | .996 | 3 | .878 |
| RPM3000 | .263 | 3 | . | .955 | 3 | .593 |
| RPM5000 | .321 | 3 | . | .881 | 3 | .328 |
| a. Lilliefors Significance Correction | | | | | | | |

Table 8. Tests of Normality for Variations in 3% PH Adjuster Additives

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Normality** | | | | | | | |
| Kolmogorov-Smirnova | | | | | Shapiro-Wilk | | |
|  | RPM | Statistic | df | Sig. | Statistic | df | Sig. |
| Result | RPM1000 | .200 | 3 | . | .995 | 3 | .859 |
| RPM3000 | .381 | 3 | . | .760 | 3 | .023 |
| RPM5000 | .269 | 3 | . | .949 | 3 | .567 |
| a. Lilliefors Significance Correction | | | | | | | |

Table 9. Tests of Normality for Variations in 3% PH Adjuster Additives

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Normality** | | | | | | | |
| Kolmogorov-Smirnova | | | | | Shapiro-Wilk | | |
|  | RPM | Statistic | df | Sig. | Statistic | df | Sig. |
| Result | RPM1000 | .204 | 3 | . | .993 | 3 | .843 |
| RPM3000 | .373 | 3 | . | .945 | 3 | .550 |
| RPM5000 | .301 | 3 | . | .921 | 3 | .424 |
| a. Lilliefors Significance Correction | | | | | | | |

Table 10. Test of Homogeneity of Variances on Variations of 0% PH Adjuster Additives

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | | | |
| Levene Statistic | | | df1 | df2 | Sig. |
| Result | Based on Mean | .206 | 2 | 6 | .819 |
| Based on Median | .161 | 2 | 6 | .855 |
| Based on Median and with adjusted df | .161 | 2 | 5.908 | .855 |
| Based on trimmed mean | .204 | 2 | 6 | .821 |

Table 11. Test of Homogeneity of Variances on Variations of 3% PH Adjuster Additives

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | | | |
| Levene Statistic | | | df1 | df2 | Sig. |
| Results | Based on Mean | 3.714 | 2 | 6 | .089 |
| Based on Median | .356 | 2 | 6 | .714 |
| Based on Median and with adjusted df | .356 | 2 | 2.591 | .730 |
| Based on trimmed mean | 3.184 | 2 | 6 | .114 |

Table 12. Test of Homogeneity of Variances on Variations of 5% PH Adjuster Additives

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | | | |
| Levene Statistic | | | df1 | df2 | Sig. |
| Results | Based on Mean | 7.621 | 2 | 6 | .023 |
| Based on Median | 2.237 | 2 | 6 | .188 |
| Based on Median and with adjusted df | 2.237 | 2 | 2.052 | .305 |
| Based on trimmed mean | 7.077 | 2 | 6 | .026 |