

INTELLOFAX 28

INFORMATION REPORT

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1. The following table indicates the fulfillment of quality norms for products fabricated in VEB Otto Grotowohl Boehlen during the second quarter of 1953. The quality norm is listed together with the measurement unit used for it and the actual value attained. The table contains exact technical data on some of the most important items produced in the enterprise.

Fulfillment of quality norms:

| No. | Item | Measurement Unit | Quality Norm | Actual Value |
|-----|----------------------------------|------------------|----------------|--------------|
| 1. | <u>Raw Coal</u> | | | |
| | Water content | % | 55 | 54.1 |
| | Ashes | % | 5.5 to 6.5 | 5.7 |
| | Combustible content | % | 38.0 to 40.5 | 40.2 |
| | Tar | % | 7.0 to 8.0 | 8.3 |
| | Volatile sulfur | % | 0.7 to 0.9 | 1.00 |
| | Heating value | kcal | 2,200 to 2,300 | 2,409 |
| 2. | <u>Distillation briquettes B</u> | | | |
| | Water content | % | 15.3 | 15.9 |
| | Ashes | % | 10.0 to 12.0 | 10.8 |
| | Combustible content | % | 74.0 to 76.0 | 73.3 |
| | Tar | % | 14.0 to 15.0 | 15.2 |
| | Pressure resistance | kg per sq cm | 50 to 75 | 42 |
| | Heating value | kcal | 4,800 to 5,000 | 4,860 |

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| 3. Sales briquettes A | | | |
| Water content | % | 18 | 16.6 |
| Ashes | % | 11 | 10.7 |
| Combustible content | % | 72.5 to 75.0 | 72.7 |
| Pressure resistance | kg per sq cm | 70 to 80 | 53 |
| Heating value | kcal | 4,700 to 4,800 | 4,845 |
| 4. Distillation coke | | | |
| Water content | % | 3 | 2.1 |
| Ashes | % | 22.0 to 24.0 | 24.1 |
| Tar | % | 1.3 | 1.0 |
| Combustible content | SECRET | 73.0 to 76.0 | 73.8 |
| Heating value | kcal | 5,900 to 6,100 | 6,035 |
| 5. Lignite distillation tar | | | |
| Specific gravity (sp.gr.) at 50 centigrades | tons per cubic meter | 0.930 to 0.945 | 0.943 |
| Water content | % | 1.0 | 0.66 |
| Solidification temperature | degrees centigrade | 33 to 35 | 35.9 |
| Percentage boiling at 320° centigrade | % | 26 to 30 | 24.7 |
| 6. Light distillation oil | | | |
| Sp.gr. at 20° centigrade | tons per cu. meter | 0.835 to 0.850 | 0.858 |
| Flash point | degrees centigrade | 6 to 7 | 0 |
| Percentage up to 100° centigrade | % | 3.0 to 5.0 | 2.4 |
| Percentage up to 150° centigrade | % | 32.0 to 40.0 | 26.6 |
| 7. City Gas | | | |
| Maximum heating value | kcal | 4,250 to 4,350 | 4,348 |
| Density | - | 0.45 to 0.50 | 0.475 |
| O ₂ not exceeding | % | 0.3 | 0.2 |
| 8. Phenolate lye | | | |
| Raw acid | % | 22.0 to 25.0 | 23.82 |

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| 9. <u>Auto Benzine (without lead addition)</u> | | | |
| Sp.gr. at 15° centigrades | tons per sq. meter | - | 0.741 |
| Boiling starts | degrees centigrade | - | 46 |
| Boiling ends | degrees centigrades | 205 | 169 |
| Steam pressure | mm. Hg (38° centigrade) | 500 | 327 |
| Octane number | - | 55 | 58.4 |
| 10. <u>Special Benzine O</u> | | | |
| Sp.gr. | tons per cu. meter | - | 0.740 |
| Boiling starts | degrees centigrade | 46 | 46 |
| Boiling ends | degrees centigrade | 180 | 163 |
| Steam pressure | mm. Hg (38° centigrade) | 360 | 338 |
| Octane number | - | 95 | 96.5 |
| 11. <u>AT Benzine</u> | | | |
| Sp.gr. | tons per cu. meter | - | 0.692 |
| Boiling starts | degrees centigrade | 40 | 44 |
| Boiling ends | degrees centigrade | 180 | 179 |
| Steam pressure | mm. Hg (38° centigrade) | 360 | 341 |
| Octane number | - | 91 | 92.3 |
| 12. <u>Mittel Benzine</u> | | | |
| Sp.gr | tons per cu. meter | 0.800 to 0.850 | 0.810 |
| Boiling start | degrees centigrade | 150 | 147 |
| Boiling end- | centigrade | 280 | 248 |
| Flash point | degrees centigrade | plus 30 | plus 34.5 |
| Solidifying point | degrees centigrade | minus 56 | minus 61.5 |
| Viscosity at 20° centigrade. | centistokes | 1.5 | 1.5 |
| Resin test | mg per 100 cu. cm | 8.0 | 1.8 |

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| 13. | <u>Diesel Fuel</u> | | | |
| | Sp.gr. | tons per cu. meter | - | 0.837 |
| | Boiling starts | degrees centigrade | - | 183 |
| | Boiling ends | degrees centigrade | 330 | 317 |
| | Flash point | degrees centigrade | - | plus 61 |
| | Solidifying point | degrees centigrade | minus 15 | minus 21 |
| 14. | <u>Propane</u> | | | |
| | C ₃ | % | 95 | 96.7 |
| | Organic sulfur | mg per cu meter | 250 | 23.0 |
| 15. | <u>Iso-octane 224</u> | | | |
| | Octane number | - | 100 | 100.0 |
| | Sp.gr. | tons per cu. meter | 0.6018 to 0.6923 | 0.69185 |
| | Refractive index | - | 1.3914 to 1.3915 | 1.3915 |
| | Boiling point | degrees centigrade | 99.1 to 99.5 | 99.16 |
| 16. | <u>Eichstoff S</u> | | | |
| | Octane number | - | 99 | 99.6 |
| | Sp.gr | tons per cu. meter | 0.6835 to 0.6923 | 0.6919 |
| | Refractive index | - | 1.3915 to 1.3922 | 1.3915 |
| | Boiling point | degrees centigrade | 98.4 to 100.0 | 98.62 |

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 comments on some of the items listed above:

- a. Items 2 and 3: Fulfillment of the quality norms is not possible for the briquette factory, if the high production plan is to be fulfilled.
- b. Item 4: The increase in the ash content is caused by the low quality of the briquette.
- c. Item 6: The decrease of the light parts in light oil is to be considered as a result of insufficient distillation capacity.

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