



**Producteur :** SAS Ballastières Werny  
**Granulats :** 16/31.5 roulé  
**Péetrographie :** Alluvionnaire silico-calcaire

**Client :** Contrôle Interne

### Partie contractuelle

Valeurs spécifiées sur lesquelles le producteur s'engage

**Classe granulaire**

**Norme**

**Catégorie**

16 31.5

Norme XP P 18-545 Article 10 - EN 12620 et EN 13139

Code A

|           | d/2   | d |    |      |    |    |    | D/1.4 |    | D    | 1.4D | 2D  | Argl | f    | FI    | W |
|-----------|-------|---|----|------|----|----|----|-------|----|------|------|-----|------|------|-------|---|
|           | 0.063 | 8 | 10 | 12.5 | 16 | 18 | 20 | 22.4  | 25 | 31.5 | 45   | 63  |      |      |       |   |
| Etendue e |       |   |    |      | 15 |    |    |       |    | 15   |      |     |      |      |       |   |
| V.S.S.+U  |       | 6 |    |      | 21 |    |    |       |    | 100  |      |     |      |      | 24.00 |   |
| V.S.S.    |       | 5 |    |      | 16 |    |    |       |    | 99   |      |     |      | 1.50 | 20.00 |   |
| V.S.I.    |       | 0 |    |      | 1  |    |    |       |    | 84   | 98   | 100 |      |      |       |   |
| V.S.I.-U  |       | 0 |    |      | 0  |    |    |       |    | 79   | 97   | 100 |      |      |       |   |

### Partie informative

Résultats de production

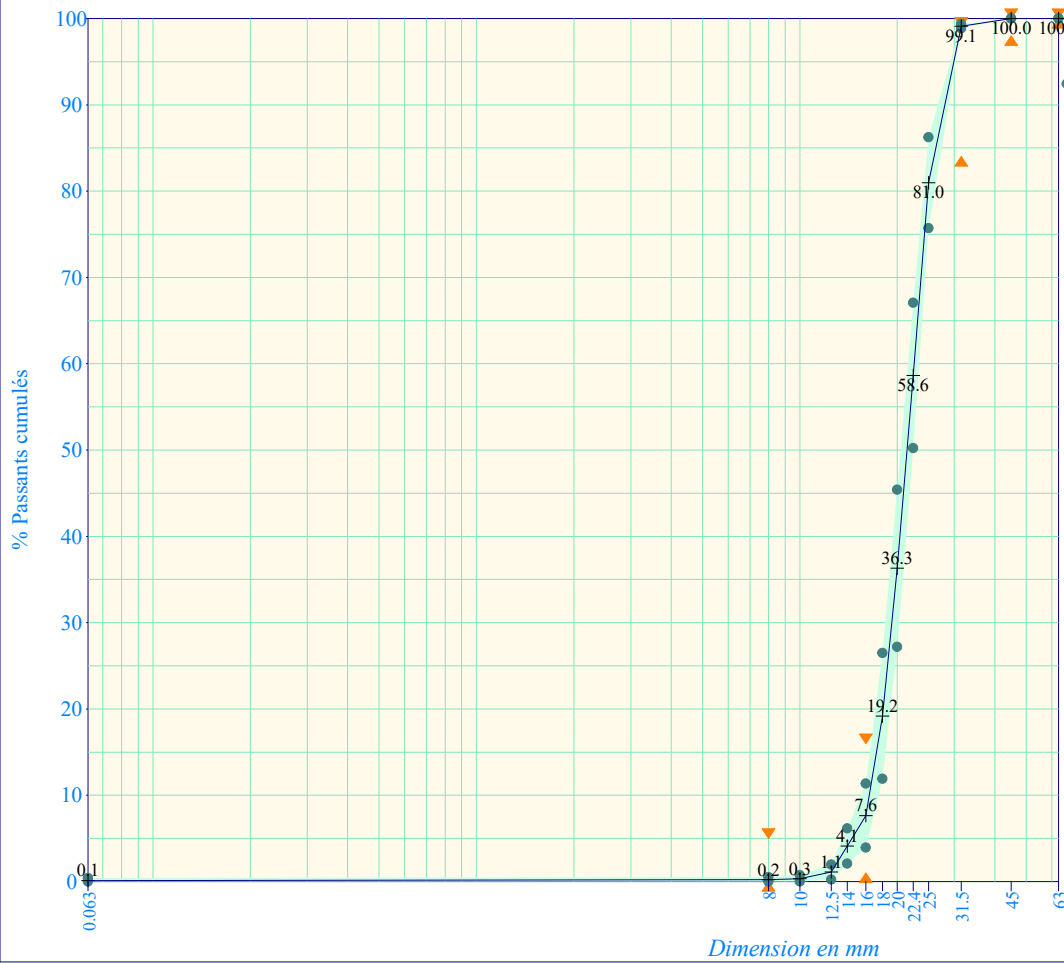
du 08/06/20 au 07/12/20

|                       | 0.063 | 8   | 10  | 12.5 | 16  | 18  | 20  | 22.4 | 25  | 31.5 | 45  | 63  | Argl  | f     | FI    | W     |
|-----------------------|-------|-----|-----|------|-----|-----|-----|------|-----|------|-----|-----|-------|-------|-------|-------|
| CI-R32/20/24          | 0.0   | 0   | 0   | 1    | 8   | 23  | 42  | 62   | 84  | 99   | 100 | 100 |       | 0.01  |       | 47.7  |
| CI-R32/20/25          | 0.0   | 0   | 1   | 3    | 15  | 32  | 52  | 73   | 86  | 99   | 100 | 100 |       | 0.01  |       | 1.3   |
| CI-R32/20/26          | 0.0   | 0   | 0   | 1    | 7   | 18  | 31  | 53   | 81  | 99   | 100 | 100 |       | 0.00  |       | 1.0   |
| CI-R32/20/28          | 0.0   | 0   | 0   | 0    | 5   | 17  | 37  | 58   | 82  | 99   | 100 | 100 |       | 0.01  |       | 1.1   |
| CI-R32/20/30          | 0.0   | 0   | 0   | 0    | 4   | 12  | 29  | 53   | 80  | 99   | 100 | 100 | 0.00  | 0.00  |       | 0.1   |
| CI-R32/20/33          | 0.1   | 0   | 0   | 1    | 5   | 11  | 23  | 48   | 76  | 99   | 100 | 100 |       | 0.06  | 13.41 | 0.7   |
| CI-R32/20/34          | 0.1   | 0   | 0   | 0    | 4   | 11  | 26  | 49   | 72  | 99   | 100 | 100 |       | 0.06  |       | 1.4   |
| CI-R32/20/35          | 0.2   | 0   | 1   | 1    | 6   | 16  | 35  | 59   | 81  | 99   | 100 | 100 |       | 0.20  |       | 1.4   |
| CI-R32/20/39          | 0.0   | 0   | 0   | 1    | 9   | 23  | 41  | 67   | 86  | 99   | 100 | 100 | 0.00  | 0.01  |       | 1.1   |
| CI-R32/20/41          | 0.0   | 0   | 0   | 1    | 6   | 18  | 35  | 61   | 83  | 99   | 100 | 100 |       | 0.00  | 18.01 | 1.6   |
| CI-R32/20/43          | 0.0   | 0   | 0   | 1    | 7   | 19  | 38  | 60   | 82  | 99   | 100 | 100 |       | 0.02  |       | 1.7   |
| CI-R32/20/46          | 0.0   | 0   | 0   | 1    | 10  | 26  | 43  | 65   | 87  | 99   | 100 | 100 |       | 0.04  |       | 1.5   |
| CI-R32/20/48          | 0.9   | 1   | 1   | 2    | 12  | 22  | 39  | 60   | 78  | 99   | 100 | 100 |       | 0.94  | 18.27 | 2.2   |
| CI-R32/20/49          | 0.0   | 0   | 0   | 1    | 8   | 22  | 41  | 59   | 80  | 99   | 100 | 100 |       | 0.02  |       | 1.5   |
| CI-R32/20/50          | 0.2   | 0   | 1   | 2    | 8   | 17  | 34  | 53   | 75  | 99   | 100 | 100 |       | 0.15  | 15.52 | 1.2   |
| Maximum               | 0.9   | 1   | 1   | 3    | 15  | 32  | 52  | 73   | 87  | 99   | 100 | 100 | 0.00  | 0.94  | 18.27 | 47.7  |
| Xf+1.25xEcart-types   | 0.4   | 1   | 1   | 2    | 11  | 26  | 45  | 67   | 86  | 99   | 100 | 100 |       | 0.40  |       | 19.4  |
| Moyenne Xf            | 0.1   | 0   | 0   | 1    | 8   | 19  | 36  | 59   | 81  | 99   | 100 | 100 | 0.00  | 0.10  | 16.30 | 4.4   |
| Xf-1.25xEcart-types   | 0.0   | 0   | 0   | 0    | 4   | 12  | 27  | 50   | 76  | 99   | 100 | 100 |       | 0.00  |       | 0.0   |
| Minimum               | 0.0   | 0   | 0   | 0    | 4   | 11  | 23  | 48   | 72  | 99   | 100 | 100 | 0.00  | 0.00  | 13.41 | 0.1   |
| Ecart-type            | 0.24  | 0.3 | 0.3 | 0.7  | 3.0 | 5.8 | 7.3 | 6.7  | 4.2 | 0.2  | 0.0 | 0.0 | 0.000 | 0.239 | 1.984 | 12.00 |
| Nombre de résultats   | 15    | 15  | 15  | 15   | 15  | 15  | 15  | 15   | 15  | 15   | 15  | 15  | 2     | 15    | 4     | 15    |
| Catégorie XPP18545/10 | A     | A   |     |      | A   |     |     | D    |     | D    | A   | A   |       |       | A     |       |



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| Autres caractéristiques                         |                    |
|---|--------------------|
| Sulfate soluble dans l'acide                    | 0.01 (21/09/2020)  |
| Chlorures                                       | 0.000 (21/09/2020) |
| Résistance au gel/dégel                         | 0.50 (21/09/2020)  |
| Los Angeles                                     | 21.00 (20/07/2020) |
| Teneur en contaminants légers                   | 0.10 (21/09/2020)  |
| Micro-Deval                                     | 11.00 (20/07/2020) |
| Sulfate de magnésium                            | 8 (21/09/2020)     |
| Masse volumique réelle                          | 2.65 (21/09/2020)  |
| Soufre total                                    | 0.01 (21/09/2020)  |
| Fragmentation par impact (Résistance aux chocs) | 21.80 (21/09/2020) |
| Absorption d'eau                                | 0.75 (21/09/2020)  |
| Teneur en alcalins actifs                       | 0.001 (21/09/2020) |