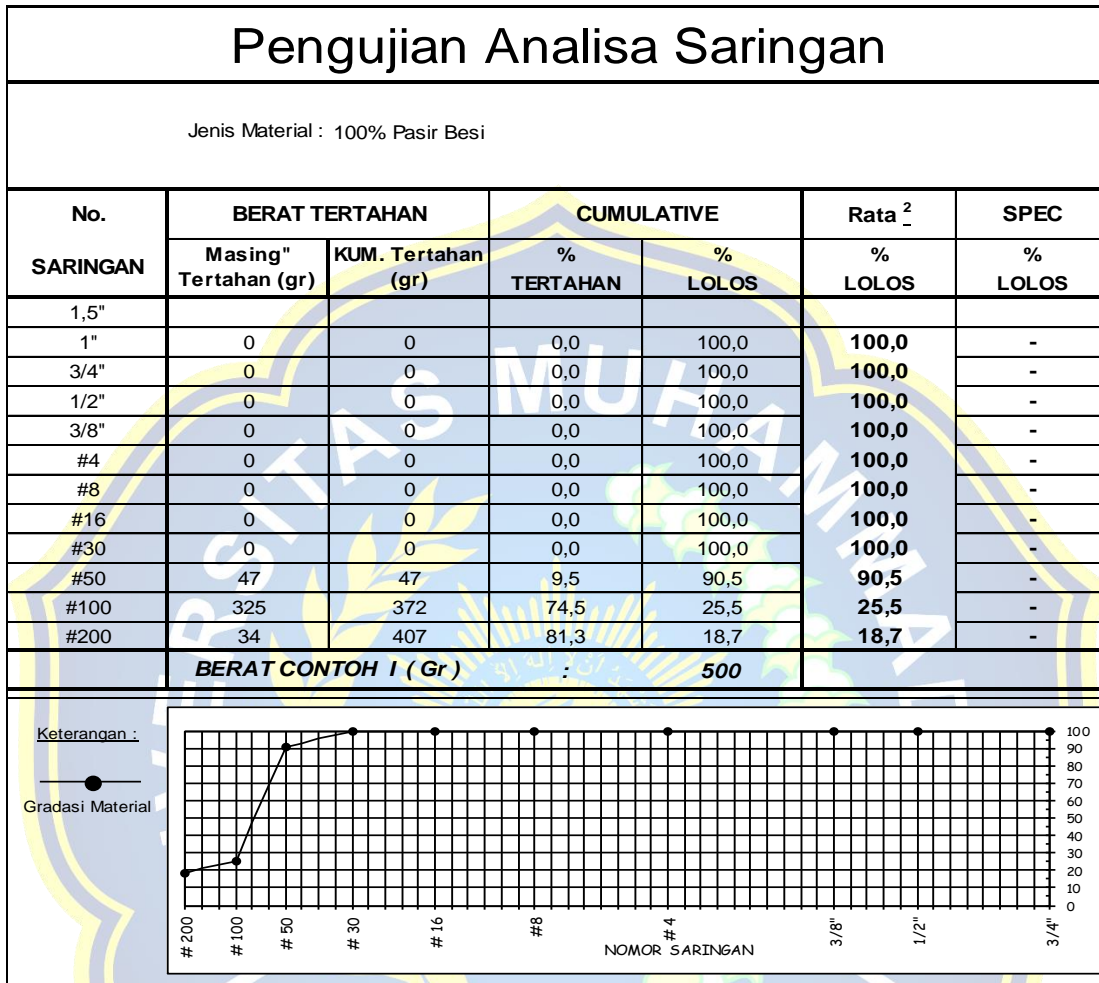




Analisa saringan dan berat jenis



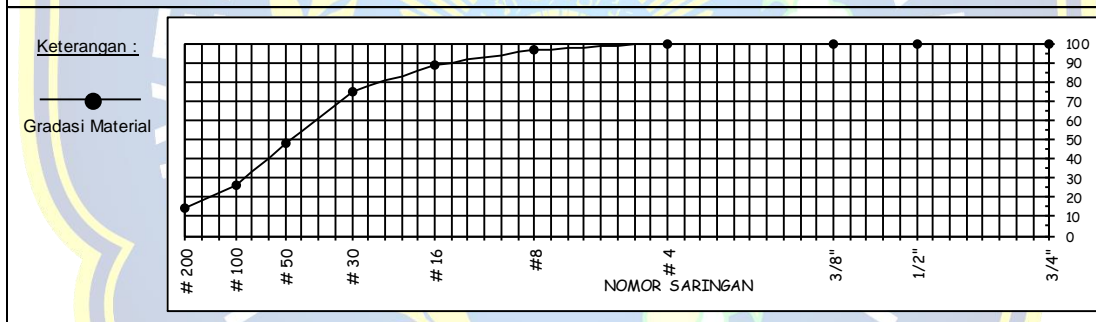
Pasir Besi

| Jenis Pengujian | Percobaan |
|--|-----------|
| Berat benda uji kering permukaan jenuh (gram) | 501,0 |
| Berat picnometer + Air suling (Gram (B)) | 668,8 |
| Berat picnometer + Benda uji SSD + Air (Gram (Bt)) | 1059,8 |
| Berat benda uji kering oven (Gram (BK)) | 498,0 |
| Berat Jenis (Balk Spesific Gravity) | 4,57 |
| Berat jenis kering permukaan jenuh (SSD) | 4,59 |
| Berat jenis semu (Apparent Spesific Gravity) | 4,65 |
| Penyerapan (%) | 0,4 |

Pengujian Analisa Saringan

Jenis Material : NATURAL SAND (NS) / PASIR ALAM

| No. SARINGAN | BERAT TERTAHAN | | CUMULATIVE | | Rata ² | SPEC |
|------------------------------|--------------------------|-----------------------|---------------|------------|-------------------|------------|
| | Masing" Tertahan (gr) | KUM. Tertahan (gr) | % TERTAHAN | % LOLOS | % LOLOS | % LOLOS |
| 1,5" | | | | | | |
| 1" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| 3/4" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| 1/2" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| 3/8" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| #4 | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| #8 | 18 | 18 | 3,6 | 96,4 | 96,4 | - |
| #16 | 40 | 58 | 11,6 | 88,4 | 88,4 | - |
| #30 | 68 | 126 | 25,2 | 74,8 | 74,8 | - |
| #50 | 136 | 262 | 52,4 | 47,6 | 47,6 | - |
| #100 | 107 | 369 | 73,8 | 26,2 | 26,2 | - |
| #200 | 57 | 426 | 85,2 | 14,8 | 14,8 | - |
| BERAT CONTOH I (Gr) | | | | 500 | | |



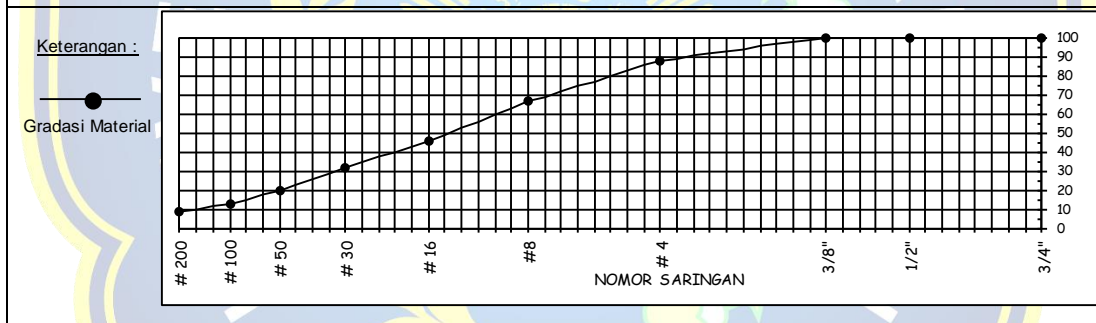
NS (Natural Sand)

| Jenis Pengujian | Percobaan |
|--|-----------|
| Berat benda uji kering permukaan jenuh (gram) | 500,0 |
| Berat picnometer + Air suling (Gram (B)) | 669,0 |
| Berat picnometer + Benda uji SSD + Air (Gram (Bt)) | 970,0 |
| Berat benda uji kering oven (Gram (BK)) | 495,0 |
| Berat Jenis (Balk Spesific Gravity) | 2,49 |
| Berat jenis kering permukaan jenuh (SSD) | 2,51 |
| Berat jenis semu (Apparent Spesific Gravity) | 2,55 |
| Penyerapan (%) | 1,01 |

Pengujian Analisa Saringan

Jenis Material : FINE AGG. (FA - 3/8")

| No. SARINGAN | BERAT TERTAHAN | | KUMULATIF | | Hasil | SPEC |
|------------------------------|--------------------------|-----------------------|---------------|------------|------------|------------|
| | Masing" Tertahan (gr) | KUM. Tertahan (gr) | % TERTAHAN | % LOLOS | % LOLOS | % LOLOS |
| 1,5" | | | | | | |
| 1" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| 3/4" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| 1/2" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| 3/8" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| #4 | 61 | 61 | 12,3 | 87,7 | 87,7 | - |
| #8 | 107 | 169 | 33,7 | 66,3 | 66,3 | - |
| #16 | 106 | 275 | 54,9 | 45,1 | 45,1 | - |
| #30 | 66 | 341 | 68,1 | 31,9 | 31,9 | - |
| #50 | 61 | 401 | 80,2 | 19,8 | 19,8 | - |
| #100 | 38 | 439 | 87,8 | 12,2 | 12,2 | - |
| #200 | 18 | 457 | 91,3 | 8,7 | 8,7 | - |
| BERAT CONTOH I (Gr) | | | | : | 500 | |



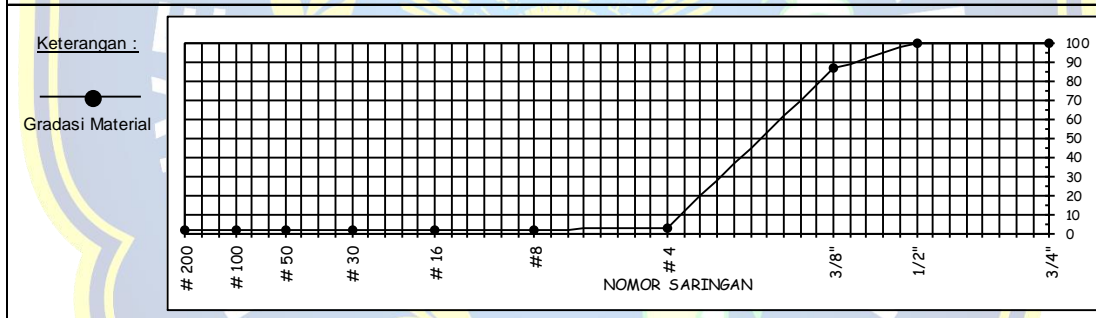
FA (Agregat Halus)

| Jenis Pengujian | Percobaan |
|--|-----------|
| Berat benda uji kering permukaan jenuh (gram) | 500,0 |
| Berat picnometer + Air suling (Gram (B)) | 670,0 |
| Berat picnometer + Benda uji SSD + Air (Gram (Bt)) | 975,0 |
| Berat benda uji kering oven (Gram BK)) | 490,0 |
| Berat Jenis (Balk Spesific Gravity) | 2,513 |
| Berat jenis kering permukaan jenuh (SSD) | 2,564 |
| Berat jenis semu (Apparent Spesific Gravity) | 2,649 |
| Penyerapan (%) | 0,208 |

Pengujian Analisa Saringan

Jenis Material : MEDIUM AGG. (MA - 1/2")

| No. SARINGAN | BERAT TERTAHAN | | KUMULATIF | | Hasil | SPEC |
|------------------------------|--------------------------|-----------------------|---------------|------------|-------------|------------|
| | Masing" Tertahan (gr) | KUM. Tertahan (gr) | % TERTAHAN | % LOLOS | % LOLOS | % LOLOS |
| 1,5" | | | | | | |
| 1" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| 3/4" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| 1/2" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| 3/8" | 138 | 138 | 13,8 | 86,2 | 86,2 | - |
| #4 | 834 | 972 | 97,2 | 2,8 | 2,8 | - |
| #8 | 11 | 984 | 98,4 | 1,6 | 1,6 | - |
| #16 | 0 | 984 | 98,4 | 1,6 | 1,6 | - |
| #30 | 0 | 984 | 98,4 | 1,6 | 1,6 | - |
| #50 | 1 | 985 | 98,5 | 1,5 | 1,5 | - |
| #100 | 1 | 987 | 98,7 | 1,3 | 1,3 | - |
| #200 | 1 | 987 | 98,7 | 1,3 | 1,3 | - |
| BERAT CONTOH I (Gr) | | | | : | 1000 | |



MA (Agregat Sedang)

| Jenis Pengujian | | Percobaan |
|---|------|-----------|
| Berat benda uji kering oven (Bk) | gram | 997,0 |
| Berat uji kering permukaan jenuh (Bj) | gram | 1017,0 |
| Berat benda uji dalam air (Ba) | gram | 618,0 |
| Berat Jenis (Bulk Specific Gravity) = $Bk / Bj - Ba$ | | 2,5 |
| Berat Kering Permukaan Jenuh (Saturated Surface Dry) = $Bj / Bj - Ba$ | | 2,5 |
| Berat Jenis Semu (Aparent Spesific Gravity) = $Bk / Bk - Ba$ | | 2,6 |
| Penyerapan = $Bj - Bk / Bk \times 100\%$ | | 2,0 |

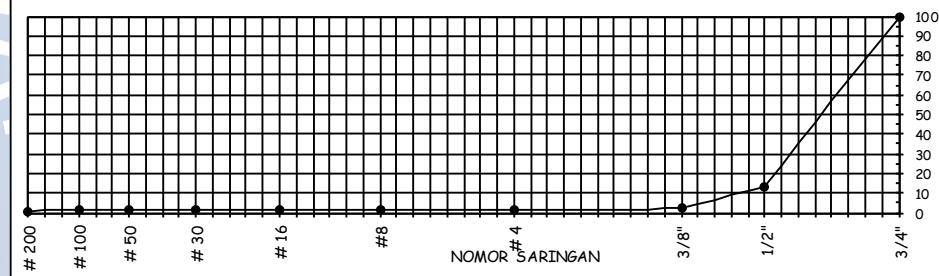
Pengujian Analisa Saringan

Jenis Material : COARSE AGG. (CA - 3/4")

| No. SARINGAN | BERAT TERTAHAN | | KUMULATIF | | Hasil | SPEC |
|------------------------------|--------------------------|-----------------------|---------------|-------------|------------|------------|
| | Masing" Tertahan (gr) | KUM. Tertahan (gr) | % TERTAHAN | % LOLOS | % LOLOS | % LOLOS |
| 1,5" | | | | | | |
| 1" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| 3/4" | 0 | 0 | 0,0 | 100,0 | 100,0 | - |
| 1/2" | 866 | 866 | 86,6 | 13,5 | 13,5 | - |
| 3/8" | 114 | 980 | 98,0 | 2,1 | 2,1 | - |
| #4 | 6 | 986 | 98,6 | 1,4 | 1,4 | - |
| #8 | 0 | 986 | 98,6 | 1,4 | 1,4 | - |
| #16 | 0 | 986 | 98,6 | 1,4 | 1,4 | - |
| #30 | 0 | 986 | 98,6 | 1,4 | 1,4 | - |
| #50 | 1 | 987 | 98,7 | 1,3 | 1,3 | - |
| #100 | 2 | 989 | 98,9 | 1,1 | 1,1 | - |
| #200 | 2 | 991 | 99,1 | 0,9 | 0,9 | - |
| BERAT CONTOH I (Gr) | | | | 1000 | | |

Keterangan :

●
Gradasi Material

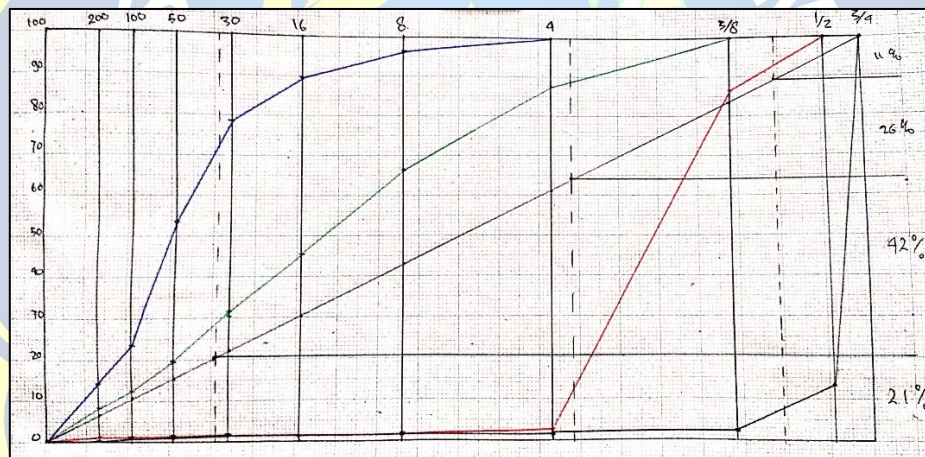


CA (Agregat Kasar)

| Jenis Pengujian | Percobaan |
|---|----------------|
| Berat benda uji kering oven (Bk) | gram 997,0 |
| Berat uji kering permukaan jenuh (Bj) | gram 1021,0 |
| Berat benda uji dalam air (Ba) | gram 619,0 |
| Berat Jenis (Bulk Spesific Gravity) = $Bk / Bj - Ba$ | 2,5 |
| Berat Kering Permukaan Jenuh (Saturated Surface Dry) = $Bj / Bj - Ba$ | 2,5 |
| Berat Jenis Semu (Aparent Spesific Gravity) = $Bk / Bk - Ba$ | 2,6 |
| Penyerapan = $Bj - Bk / Bk \times 100\%$ | 2,4 |

| ANALISA LOS ANGELES | |
|---------------------------|----------------------|
| UKURAN SARINGAN | JUMLAH PUTARAN = 500 |
| | BOLA BAJA = 11 BUAH |
| TERTAHAN | BERAT AGREGAT (gr) |
| 1/2" | 2500 |
| 3/8" | 2500 |
| JUMLAH | 5000 |
| DI SARING SARINGAN No. 12 | |
| DEBU/KEAUSAN | 1028 |
| HASIL LOS ANGELES | 3972 |
| JUMLAH | 5000 |
| PERSEN KEAUSAN (%) | 20,56% |

Metode grafik lab



Metode matematis

Percobaan pengelompokan agregat 1

| PENGELOMPOKAN AGREGAT | | | | | | |
|-----------------------|-----------------|-----------------|---------------|--------------|-----------------|----------------|
| No. SARINGAN | COARSE AGGREGAT | MEDIUM AGGREGAT | FINE AGGREGAT | NATURAL SAND | SPEC. MID POINT | JENIS Material |
| 1" - 3/4" | 0,0 | 0,0 | 0,0 | 0,0 | 0 | CA |
| 3/4" - 1/2" | 86,6 | 0,0 | 0,0 | 0,0 | 5 | |
| 1/2" - 3/8" | 11,4 | 13,8 | 0,0 | 0,0 | 11,5 | MA |
| 3/8" - #4 | 0,6 | 83,4 | 12,3 | 0,0 | 22,5 | |
| #4 - #8 | 0,0 | 1,1 | 21,4 | 3,6 | 18 | |
| #8 - #16 | 0,0 | 0,0 | 21,2 | 8,0 | 12,5 | |
| #16 - #30 | 0,0 | 0,0 | 13,2 | 13,6 | 8,5 | |
| #30 - #50 | 0,1 | 0,1 | 12,1 | 27,3 | 6,5 | FA |
| #50 - #100 | 0,2 | 0,1 | 7,5 | 21,4 | 5 | |
| #100 - #200 | 0,2 | 0,1 | 3,6 | 11,4 | 4 | |
| #200 | 0,9 | 1,3 | 8,7 | 14,8 | 6,5 | |

| HASIL PENGELOMPOKAN PERCOBAAN 1 | | | | | |
|---------------------------------|-----------------|-----------------|---------------|--------------|-----------------|
| No. Saringan | COARSE AGGREGAT | MEDIUM AGGREGAT | FINE AGGREGAT | NATURAL SAND | SPEC. MID POINT |
| CA | 86,6 | 0,0 | 0,0 | 0,0 | 5 |
| MA | 12,0 | 98,4 | 68,1 | 25,2 | 73 |
| FA | 0,5 | 0,3 | 23,2 | 60,0 | 15,5 |
| NS | 0,9 | 1,3 | 8,7 | 14,8 | 6,5 |
| JUMLAH | 100,0 | 100,0 | 100,0 | 100,0 | 100 |

Percobaan pengelompokan agregat 2

| PENGELOMPOKAN AGREGAT | | | | | | |
|-----------------------|-----------------|-----------------|---------------|--------------|-----------------|----------------|
| No. SARINGAN | COARSE AGGREGAT | MEDIUM AGGREGAT | FINE AGGREGAT | NATURAL SAND | SPEC. MID POINT | JENIS Material |
| 1" - 3/4" | 0,0 | 0,0 | 0,0 | 0,0 | 0 | CA |
| 3/4" - 1/2" | 86,6 | 0,0 | 0,0 | 0,0 | 5 | |
| 1/2" - 3/8" | 11,4 | 13,8 | 0,0 | 0,0 | 11,5 | |
| 3/8" - #4 | 0,6 | 83,4 | 12,3 | 0,0 | 22,5 | MA |
| #4 - #8 | 0,0 | 1,1 | 21,4 | 3,6 | 18 | |
| #8 - #16 | 0,0 | 0,0 | 21,2 | 8,0 | 12,5 | FA |
| #16 - #30 | 0,0 | 0,0 | 13,2 | 13,6 | 8,5 | |
| #30 - #50 | 0,1 | 0,1 | 12,1 | 27,3 | 6,5 | |
| #50 - #100 | 0,2 | 0,1 | 7,5 | 21,4 | 5 | |
| #100 - #200 | 0,2 | 0,1 | 3,6 | 11,4 | 4 | |
| #200 | 0,9 | 1,3 | 8,7 | 14,8 | 6,5 | NS |

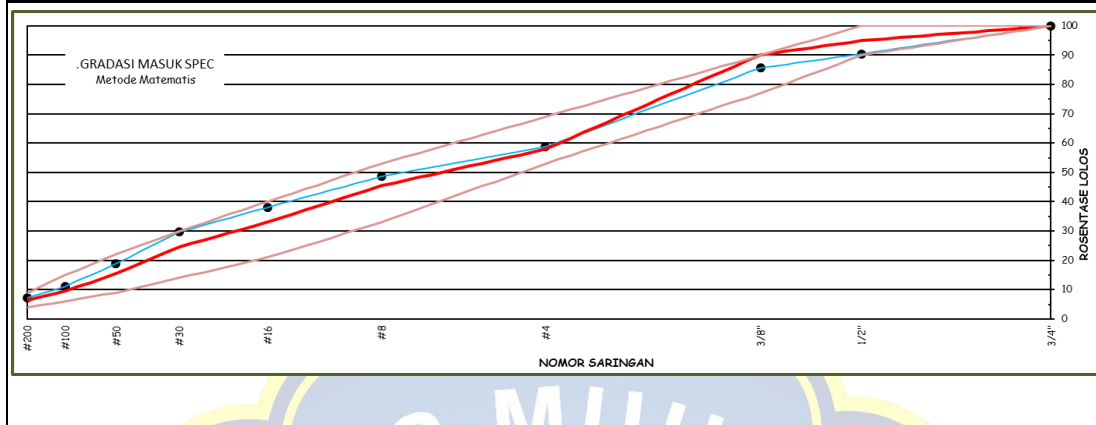
| HASIL PENGELOMPOKAN PERCOBAAN 2 | | | | | |
|---------------------------------|-----------------|-----------------|---------------|--------------|-----------------|
| No. Saringan | COARSE AGGREGAT | MEDIUM AGGREGAT | FINE AGGREGAT | NATURAL SAND | SPEC. MID POINT |
| CA | 98,0 | 13,8 | 0,0 | 0,0 | 16,5 |
| MA | 0,6 | 84,5 | 33,7 | 3,6 | 40,5 |
| FA | 0,5 | 0,4 | 57,6 | 81,6 | 36,5 |
| NS | 0,9 | 1,3 | 8,7 | 14,8 | 6,5 |
| JUMLAH | 100,0 | 100,0 | 100,0 | 100,0 | 100 |

Percobaan pengelompokan agregat 3

| PENGELOMPOKAN AGREGAT | | | | | | |
|-----------------------|-----------------|-----------------|---------------|--------------|-----------------|----------------|
| No. SARINGAN | COARSE AGGREGAT | MEDIUM AGGREGAT | FINE AGGREGAT | NATURAL SAND | SPEC. MID POINT | JENIS Material |
| 1" - 3/4" | 0,0 | 0,0 | 0,0 | 0,0 | 0 | CA |
| 3/4" - 1/2" | 86,6 | 0,0 | 0,0 | 0,0 | 5 | |
| 1/2" - 3/8" | 11,4 | 13,8 | 0,0 | 0,0 | 11,5 | MA |
| 3/8" - #4 | 0,6 | 83,4 | 12,3 | 0,0 | 22,5 | |
| #4 - #8 | 0,0 | 1,1 | 21,4 | 3,6 | 18 | |
| #8 - #16 | 0,0 | 0,0 | 21,2 | 8,0 | 12,5 | |
| #16 - #30 | 0,0 | 0,0 | 13,2 | 13,6 | 8,5 | |
| #30 - #50 | 0,1 | 0,1 | 12,1 | 27,3 | 6,5 | FA |
| #50 - #100 | 0,2 | 0,1 | 7,5 | 21,4 | 5 | |
| #100 - #200 | 0,2 | 0,1 | 3,6 | 11,4 | 4 | |
| #200 | 0,9 | 1,3 | 8,7 | 14,8 | 6,5 | NS |

| Hasil Percobaan Metode Matematis dan Grafik Lab | | | | | |
|---|----------------|---------------------------|-----------------------------------|---|-----------------------|
| Nomor | Nomor SARINGAN | Hasil Gradasi 3 | Hasil Gradasi | Sepsifikasi | Spesifikasi Mid Point |
| 1. | 3/4" | 100 | 100 | 100 | 100 |
| 2. | 1/2" | 95 | 90 | 90 - 100 | 95 |
| 3. | 3/8" | 90 | 86 | 77 - 90 | 83,5 |
| 4. | #4 | 58 | 59 | 53 - 69 | 61 |
| 5. | #8 | 45 | 49 | 33 - 53 | 43 |
| 6. | #16 | 33 | 38 | 21 - 40 | 30,5 |
| 7. | #30 | 25 | 30 | 14 - 30 | 22 |
| 8. | #50 | 16 | 19 | 9 - 22 | 15,5 |
| 9. | #100 | 9 | 11 | 6 - 15 | 10,5 |
| 10. | #200 | 7 | 7 | 4 - 9 | 6,5 |
| Komposisi Persentase Campuran | | Proporsi Metode Matematis | Proporsi Metode Metode Grafik Lab | ket. Analisa data Tambahan filler 0% | |
| COARSE AGGREGAT | | 6% | 11% | | |
| MEDIUM AGGREGAT | | 30% | 26% | | |
| FINE AGGREGAT | | 55% | 42% | | |
| NATURAL SAND | | 9% | 21% | | |

Grafik Analisa Saringan Agregat untuk Campuran AC WC



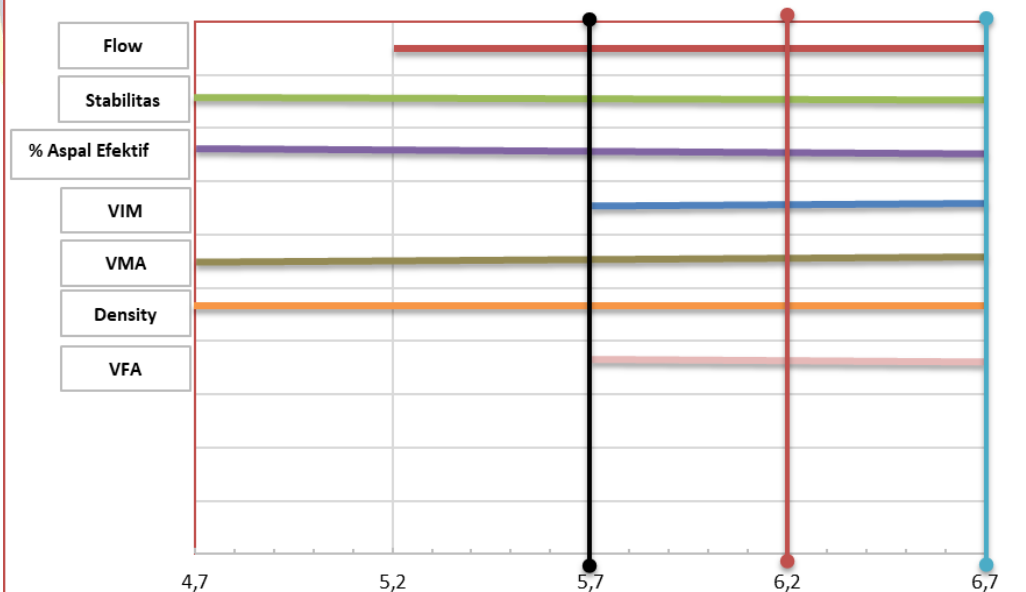
Nilai KAO, berat kadar aspal, dan agregat dalam benda filler 0%

| ANALISA DATA KADAR ASPAL OPTIMUM RENCANA | | | | | | | | | | | |
|---|-----------|-------|-----------------------------------|-------|---|--------|--|-------|-------|-------|-------|
| AGGREGATE | DATA LAB. | | PROPORSI CAMPURAN OPTIMUM RENCANA | | VARIASI CAMPURAN AGGREGATE | | VARIASI KADAR ASPAL | | | | |
| | | | FCA | FFA | I | II | III | IV | V | VI | |
| | | | 51,2 | 43,0 | 54,3 | 39,6 | 51,7 | 51,5 | 51,2 | 50,9 | 50,7 |
| | | | FFA | 43,0 | 39,6 | 39,6 | 42,4 | 42,7 | 43,0 | 43,3 | 43,6 |
| | <#4 | <#200 | FF | 5,8 | 6,1 | 6,1 | 5,8 | 5,8 | 5,8 | 5,7 | 5,7 |
| Coarse Agg. | 1,43 | 0,93 | | 5,7% | 6% | 6% | 5,7% | 5,7% | 5,7% | 5,6% | 5,6% |
| Medium Agg. | 1,62 | 1,26 | | 28,3% | 30% | 30% | 28,6% | 28,4% | 28,3% | 28,1% | 28,0% |
| Fine Agg. | 66,28 | 8,68 | | 51,9% | 55% | 55% | 52,4% | 52,1% | 51,9% | 51,6% | 51,3% |
| Pasir Alam | 96,4 | 14,84 | | 8,5% | 9% | 9% | 8,6% | 8,5% | 8,5% | 8,4% | 8,4% |
| Filler | 100 | 98,8 | | 0,0% | 0% | 0% | 0,0% | 0,0% | 0,0% | 0,0% | 0,0% |
| KADAR ASPAL : (%) | | | | 5,7% | | | 4,7% | 5,2% | 5,7% | 6,2% | 6,7% |
| Kumulatif Campuran | | | | 100% | | | 100% | 100% | 100% | 100% | 100% |
| Keterangan : | | | | | | | | | | | |
| Perkiraan Awal Kadar Aspal Rancangan (Spesifikasi Teknik) | | | | | : 0,035 (% Fraksi CA) + 0,045 (% Fraksi FA) + 0,18 (% Filler) + Konstanta | | | | | | |
| | | | | | : Nilai Konstanta untuk Laston (AC) adalah 0.5 s/d 1.0 | | | | | | |
| Dari Gradasi Agregat Gabungan : | | | | | Fraksi CA | : 54,3 | | | | | |
| | | | | | Fraksi FA | : 39,6 | : 0,035 (54,3) + 0,045 (39,6) + 0,18 (6,1) + 1 | | | | |
| | | | | | Filler | : 6,1 | : Dibulatkan Sampai Desimal (0.5) terdekat = 5,7% | | | | |
| Variasi Kadar Aspal adalah Dua Kadar Aspal di Atas dan Dua Kadar Aspal di Bawah Kadar Aspal Perkiraan yang sudah dibulatkan sampai 0.5% terdekat. | | | | | | | | | | | |

| KADAR ASPAL DAN AGREGAT DALAM BENDA UJI | | | | | |
|---|-------|-------|-------|-------|-------|
| Agregat | I | II | III | IV | V |
| Aspal | 56,4 | 62,4 | 68,4 | 74,4 | 80,4 |
| CA | 68,6 | 68,3 | 67,9 | 67,5 | 67,2 |
| MA | 343,1 | 341,3 | 339,5 | 337,7 | 335,9 |
| FA | 629,0 | 625,7 | 622,4 | 619,1 | 615,8 |
| NS | 102,9 | 102,4 | 101,8 | 101,3 | 100,8 |
| Filler | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| Total | 1200 | 1200 | 1200 | 1200 | 1200 |

| Prosentase Aspal | | Flow | Stabilitas | Density | VIM | VFA | VMA |
|------------------|---|-------------|------------|---------|-------------|-------|-------|
| | | 2,00 - 4,00 | >800 | >2,00 | 3,00 - 5,50 | >65 | >15 |
| 4,7 | a | 5,7 | 7509,61 | 2,29 | 5,50% | 63,15 | 15,00 |
| | b | 5,9 | 5886,23 | 2,28 | 5,90% | 61,73 | 15,30 |
| | c | 5,8 | 6660,00 | 2,28 | 5,60% | 62,92 | 15,10 |
| 5,2 | a | 3,2 | 5400,74 | 2,22 | 7,70% | 57,42 | 18,00 |
| | b | 3,4 | 5684,04 | 2,25 | 6,20% | 62,98 | 16,70 |
| | c | 3,3 | 5643,57 | 2,24 | 6,90% | 60,08 | 17,30 |
| 5,7 | a | 3,3 | 5854,93 | 2,29 | 4,10% | 74,09 | 15,90 |
| | b | 3,8 | 5220,91 | 2,27 | 4,80% | 71,06 | 16,50 |
| | c | 3,7 | 5474,44 | 2,25 | 5,70% | 66,98 | 17,30 |
| 6,2 | a | 3,0 | 5969,97 | 2,28 | 3,89% | 76,45 | 16,80 |
| | b | 2,3 | 6613,67 | 2,27 | 4,05% | 76,07 | 16,90 |
| | c | 2,2 | 6332,77 | 2,28 | 3,97% | 76,45 | 16,90 |
| 6,7 | a | 1,2 | 5417,85 | 2,27 | 3,53% | 79,88 | 17,50 |
| | b | 1,6 | 6010,37 | 2,27 | 3,57% | 79,68 | 17,60 |
| | c | 1,5 | 5727,06 | 2,27 | 3,55% | 79,78 | 17,60 |

Menentukan Kadar Aspal Optimum



| | V1 | V2 | V3 | V4 | V5 | V6 |
|------------|-------|-------|-------|-------|-------|-------|
| Pasir alam | 101,3 | 81,04 | 60,78 | 40,52 | 20,26 | 0 |
| Pasir besi | 0 | 20,26 | 40,52 | 60,78 | 81,04 | 101,3 |
| Total | 101,3 | 101,3 | 101,3 | 101,3 | 101,3 | 101,3 |

| Variasi NS | Flow | Stabilitas | Density | VIM | VFA | VMA |
|--------------------|-------|------------|---------|----------|--------|--------|
| | 2 – 4 | >800 | >2 | 3 – 5,5% | >65% | >15% |
| V1 0% pasir besi | 2,49 | 6378,5 | 2,28 | 3,97% | 76,45% | 16,86% |
| V2 20% pasir besi | 2,5 | 6691,11 | 2,3 | 3,0% | 81,40% | 16,0% |
| V3 40% pasir besi | 2,51 | 7037,88 | 2,31 | 2,6% | 83,57% | 15,6% |
| V4 60% pasir besi | 2,55 | 7695,07 | 2,33 | 1,7% | 88,64% | 14,9% |
| V5 80% pasir besi | 2,6 | 8016,41 | 2,36 | 0,58% | 95,86% | 13,9% |
| V6 100% pasir besi | 2,7 | 8337,31 | 2,37 | 0,18% | 98,64% | 13,6% |

