

PLANT NUTRIENTS

Bulk Blending Fertilizer Formulation Guide

Sulf-N® Ammonium Sulfate Formulations

This formulation guide contains bulk blending formulas using Sulf-N® ammonium sulfate. These grades are made with no filler and are just a sampling of possible grades that can be formulated.

Dry Blend Fertilizer Formulations* – Raw Materials

| Raw Materials | Nutrient Content |
|------------------------------|------------------|
| Sulf-N® Ammonium Sulfate | 21-0-0-24S |
| Ammonium Nitrate (AN) | 33.5-0-0 |
| Urea | 46-0-0 |
| Diammonium Phosphate (DAP) | 18-46-0 |
| Monoammonium Phosphate (MAP) | 11-52-0 |
| Triple Super Phosphate | 0-46-0 |
| Potash (KCl) | 0-0-60 |

*No filler is needed

Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Sulfate Potash, 0-0-60

| Guaranteed Analysis | | | | Pounds of Product | | Total |
|---------------------|-------------------------------|------------------|----|-------------------|------|--------|
| N | P ₂ O ₅ | K ₂ O | S | Sulf-N® | KCl | Pounds |
| 7 | 0 | 40 | 8 | 667 | 1333 | 2000 |
| 9 | 0 | 34 | 10 | 858 | 1142 | 2000 |
| 10 | 0 | 31 | 11 | 954 | 1046 | 2000 |
| 14 | 0 | 20 | 16 | 1334 | 666 | 2000 |
| 15 | 0 | 17 | 17 | 1433 | 567 | 2000 |

Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Sulfate Diammonium Phosphate, 18-46-0

Potash, 0-0-60

| Guaranteed Analysis | | | | Pounds of Product | | | Total |
|---------------------|-------------------------------|------------------|----|-------------------|-----|-----|--------|
| N | P ₂ O ₅ | K ₂ O | S | Sulf-N® | DAP | KCl | Pounds |
| 10 | 14 | 28 | 5 | 485 | 609 | 993 | 2000 |
| 11 | 7 | 27 | 9 | 796 | 304 | 900 | 2000 |
| 12 | 10 | 24 | 9 | 765 | 435 | 800 | 2000 |
| 13 | 7 | 21 | 12 | 996 | 304 | 700 | 2000 |
| 13 | 10 | 20 | 10 | 898 | 435 | 667 | 2000 |
| 14 | 6 | 18 | 13 | 1139 | 261 | 600 | 2000 |
| 15 | 5 | 15 | 15 | 1283 | 217 | 500 | 2000 |
| 15 | 14 | 14 | 11 | 926 | 607 | 467 | 2000 |
| 17 | 9 | 9 | 15 | 1300 | 400 | 300 | 2000 |
| 18 | 4 | 8 | 18 | 1559 | 174 | 267 | 2000 |
| 18 | 6 | 6 | 18 | 1510 | 275 | 215 | 2000 |
| 20 | 2 | 2 | 22 | 1835 | 90 | 75 | 2000 |

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Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Triple Super Phosphate, 0-46-0

Potash, 0-0-60

Guaranteed Analysis

| N | P ₂ O ₅ | K ₂ O | S |
|----|-------------------------------|------------------|------|
| 5 | 14 | 27 | 5.8 |
| 6 | 10 | 30 | 6.8 |
| 7 | 12 | 24 | 8.0 |
| 8 | 7 | 28 | 9.1 |
| 8 | 10 | 24 | 9.1 |
| 9 | 10 | 20 | 10.7 |
| 9 | 14 | 15 | 10.6 |
| 10 | 7 | 21 | 11.9 |
| 12 | 6 | 18 | 13.6 |
| 13 | 5 | 15 | 15.3 |
| 14 | 6 | 12 | 16.0 |
| 14 | 8 | 8 | 16.6 |
| 16 | 4 | 8 | 18.7 |
| 16 | 6 | 6 | 18.3 |

Pounds of Product

| Sulf-N® | Triple | KCI |
|---------|--------|-----|
| 490 | 610 | 900 |
| 570 | 435 | 995 |
| 670 | 530 | 800 |
| 762 | 305 | 933 |
| 765 | 435 | 800 |
| 898 | 435 | 667 |
| 890 | 610 | 500 |
| 996 | 304 | 700 |
| 1140 | 260 | 600 |
| 1282 | 218 | 500 |
| 1339 | 261 | 400 |
| 1385 | 348 | 267 |
| 1559 | 174 | 267 |
| 1525 | 270 | 205 |

Total

| Pounds |
|--------|
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |

Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Ammonium Nitrate, 33.5-0-0

Diammonium Phosphate, 18-46-0

Potash, 0-0-60

Guaranteed Analysis

| N | P ₂ O ₅ | K ₂ O | S |
|----|-------------------------------|------------------|------|
| 15 | 15 | 15 | 9.7 |
| 16 | 0 | 16 | 16.4 |
| 18 | 9 | 9 | 14.2 |
| 20 | 10 | 10 | 8.7 |

Pounds of Product

| Sulf-N® | AN | DAP | KCI |
|---------|-----|-----|-----|
| 808 | 39 | 653 | 500 |
| 1368 | 98 | 0 | 534 |
| 1185 | 123 | 392 | 300 |
| 725 | 506 | 435 | 334 |

Total

| Pounds |
|--------|
| 2000 |
| 2000 |
| 2000 |
| 2000 |

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Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Ammonium Nitrate, 33.5-0-0

Triple Super Phosphate, 0-46-0

Potash, 0-0-60

Guaranteed Analysis

| N | P ₂ O ₅ | K ₂ O | S |
|----|-------------------------------|------------------|------|
| 7 | 16 | 24 | 2.7 |
| 8 | 16 | 16 | 9.2 |
| 8 | 24 | 8 | 6.8 |
| 12 | 12 | 12 | 11.6 |
| 14 | 7 | 14 | 12.6 |
| 18 | 9 | 9 | 7.5 |

Pounds of Product

| Sulf-N® | AN | Triple | KCl |
|---------|-----|--------|-----|
| 230 | 274 | 696 | 800 |
| 770 | 0 | 696 | 534 |
| 570 | 120 | 1043 | 267 |
| 967 | 111 | 522 | 400 |
| 1050 | 179 | 304 | 467 |
| 625 | 684 | 391 | 300 |

Total

| Pounds |
|--------|
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |

Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Urea, 46-0-0

Triple Super Phosphate, 0-46-0

Potash, 0-0-60

Guaranteed Analysis

| N | P ₂ O ₅ | K ₂ O | S |
|----|-------------------------------|------------------|------|
| 8 | 16 | 16 | 9.2 |
| 8 | 16 | 24 | 2.5 |
| 8 | 24 | 8 | 7.5 |
| 12 | 12 | 12 | 12.2 |
| 14 | 7 | 14 | 13.6 |
| 15 | 15 | 15 | 4.3 |
| 18 | 9 | 9 | 11.5 |
| 18 | 9 | 18 | 5.0 |
| 20 | 10 | 10 | 8.0 |

Pounds of Product

| Sulf-N® | Urea | Triple | KCl |
|---------|------|--------|-----|
| 769 | 0 | 697 | 534 |
| 208 | 296 | 696 | 800 |
| 625 | 64 | 1044 | 267 |
| 1023 | 55 | 522 | 400 |
| 1133 | 95 | 305 | 467 |
| 358 | 489 | 653 | 500 |
| 959 | 349 | 392 | 300 |
| 428 | 590 | 392 | 600 |
| 666 | 565 | 435 | 334 |

Total

| Pounds |
|--------|
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |

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Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Urea, 46-0-0

Diammonium Phosphate, 18-46-0

Potash, 0-0-60

Guaranteed Analysis

| N | P ₂ O ₅ | K ₂ O | S |
|----|-------------------------------|------------------|------|
| 15 | 15 | 15 | 9.9 |
| 16 | 0 | 16 | 17.0 |
| 18 | 9 | 9 | 15.0 |
| 19 | 10 | 11 | 12.0 |
| 20 | 10 | 20 | 4.4 |
| 20 | 10 | 10 | 11.7 |

Pounds of Product

| Sulf-N® | Urea | DAP | KCI |
|---------|------|-----|-----|
| 828 | 19 | 653 | 500 |
| 1417 | 49 | 0 | 534 |
| 1250 | 58 | 392 | 300 |
| 1000 | 199 | 434 | 367 |
| 367 | 531 | 435 | 667 |
| 979 | 253 | 434 | 334 |

Total

| Pounds |
|--------|
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |

Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Monoammonium Phosphate, 11-52-0

Potash, 0-0-60

Guaranteed Analysis

| N | P ₂ O ₅ | K ₂ O | S |
|----|-------------------------------|------------------|------|
| 8 | 24 | 24 | 3.7 |
| 10 | 30 | 15 | 4.5 |
| 11 | 5 | 25 | 11.7 |
| 12 | 10 | 20 | 11.5 |
| 13 | 15 | 15 | 11.3 |
| 14 | 8 | 16 | 14.0 |
| 15 | 20 | 5 | 13.1 |
| 15 | 24 | 4 | 11.2 |
| 16 | 8 | 10 | 16.4 |
| 16 | 10 | 9 | 16.0 |
| 17 | 7 | 7 | 17.8 |
| 18 | 10 | 3 | 18.3 |

Pounds of Product

| Sulf-N® | MAP | KCI |
|---------|------|-----|
| 311 | 889 | 800 |
| 375 | 1112 | 513 |
| 982 | 185 | 833 |
| 963 | 370 | 667 |
| 947 | 555 | 498 |
| 1171 | 296 | 433 |
| 1093 | 740 | 167 |
| 941 | 926 | 133 |
| 1369 | 297 | 334 |
| 1330 | 370 | 300 |
| 1490 | 265 | 245 |
| 1525 | 371 | 104 |

Total

| Pounds |
|--------|
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |

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Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Urea, 46-0-0

Monoammonium Phosphate, 11-52-0

Potash, 0-0-60

Guaranteed Analysis

| N | P ₂ O ₅ | K ₂ O | S |
|----|-------------------------------|------------------|------|
| 10 | 5 | 13 | 9.3 |
| 14 | 14 | 14 | 11.6 |
| 15 | 30 | 5 | 7.4 |
| 18 | 20 | 10 | 7.0 |
| 20 | 5 | 25 | 3.3 |
| 30 | 10 | 5 | 5.4 |

Pounds of Product

| Sulf-N® | Urea | MAP | KCI |
|---------|------|-----|------|
| 780 | 35 | 185 | 1000 |
| 970 | 44 | 519 | 467 |
| 617 | 105 | 111 | 167 |
| 585 | 340 | 741 | 334 |
| 281 | 700 | 185 | 834 |
| 453 | 1010 | 370 | 167 |

Total

| Pounds |
|--------|
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |

Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Ammonium Nitrate, 33.5-0-0

Monoammonium Phosphate, 11-52-0

Potash, 0-0-60

Guaranteed Analysis

| N | P ₂ O ₅ | K ₂ O | S |
|----|-------------------------------|------------------|------|
| 12 | 18 | 18 | 7.4 |
| 12 | 30 | 10 | 6.5 |
| 14 | 14 | 14 | 11.1 |
| 16 | 7 | 16 | 10.7 |
| 19 | 6 | 6 | 16.6 |
| 20 | 10 | 10 | 7.1 |

Pounds of Product

| Sulf-N® | AN | MAP | KCI |
|---------|-----|------|-----|
| 620 | 113 | 667 | 600 |
| 542 | 13 | 1111 | 334 |
| 930 | 84 | 519 | 467 |
| 896 | 310 | 260 | 534 |
| 1384 | 194 | 222 | 200 |
| 598 | 698 | 370 | 334 |

Total

| Pounds |
|--------|
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |
| 2000 |

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Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Urea, 46-0-0

Monoammonium Phosphate, 11-52-0

Potash, 0-0-60

| Guaranteed Analysis | | | | Pounds of Product | | | | Total |
|---------------------|-------------------------------|------------------|------|-------------------|------|------|------|--------|
| N | P ₂ O ₅ | K ₂ O | S | Sulf-N® | Urea | MAP | KCl | Pounds |
| 10 | 5 | 36 | 5.0 | 417 | 190 | 193 | 1200 | 2000 |
| 15 | 10 | 22 | 5.0 | 417 | 463 | 385 | 735 | 2000 |
| 15 | 15 | 14 | 10.0 | 834 | 110 | 577 | 479 | 2000 |
| 17 | 10 | 16 | 10.0 | 833 | 248 | 385 | 534 | 2000 |
| 21 | 15 | 9 | 8.0 | 667 | 446 | 577 | 310 | 2000 |
| 21 | 30 | 0 | 6.2 | 520 | 368 | 1112 | 0 | 2000 |
| 25 | 24 | 0 | 6.0 | 500 | 610 | 890 | 0 | 2000 |

Formulation

Sulf-N® Ammonium Sulfate, 21-0-0-24S

Monoammonium Phosphate, 11-52-0

Potash, 0-0-60

| Guaranteed Analysis | | | | Pounds of Product | | | Total |
|---------------------|-------------------------------|------------------|------|-------------------|------|------|--------|
| N | P ₂ O ₅ | K ₂ O | S | Sulf-N® | MAP | KCl | Pounds |
| 5 | 10 | 41 | 2.8 | 239 | 385 | 1376 | 2000 |
| 5 | 15 | 39 | 1.4 | 120 | 577 | 1303 | 2000 |
| 9 | 23 | 24 | 3.7 | 315 | 885 | 800 | 2000 |
| 10 | 5 | 29 | 10.0 | 838 | 193 | 969 | 2000 |
| 10 | 10 | 27 | 8.5 | 715 | 385 | 900 | 2000 |
| 10 | 30 | 18 | 2.8 | 239 | 1154 | 607 | 2000 |
| 13 | 15 | 16 | 10.6 | 889 | 577 | 534 | 2000 |
| 15 | 5 | 15 | 15.7 | 1309 | 193 | 498 | 2000 |
| 15 | 20 | 8 | 11.4 | 953 | 770 | 277 | 2000 |
| 15 | 25 | 6 | 10.0 | 838 | 962 | 200 | 2000 |
| 15 | 30 | 4 | 8.5 | 714 | 1153 | 133 | 2000 |

Contact AdvanSix

To learn more about the benefits of Sulf-N® Ammonium Sulfate, visit AdvanSix.com or SulfN.com or call: **1-844-890-8949** (toll free, U.S./Can.) **+1-973-526-1800** (international)

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