

PLANT NUTRIENTS

# Suspension Fertilizer Formulation Guide

## Sulf-N® Ammonium Sulfate Formulations

This formulation guide contains suspension grade formulations using Sulf-N® ammonium sulfate, urea and ammonium nitrate (UAN), ammonium polyphosphate and potash. These grades are made with no filler and are just a sampling of possible grades that can be formulated.

### Suspension Fertilizer Formulations\* – Raw Materials

Raw Materials	Nutrient Content
Sulf-N® Ammonium Sulfate	21-0-0-24S
Urea Ammonium Nitrate 28 (UAN 28)	28-0-0
Urea Ammonium Nitrate 30 (UAN 30)	30-0-0
Urea Ammonium Nitrate 32 (UAN 32)	32-0-0
Ammonium Polyphosphate (APP)	10-34-0
Potash (KCl)	0-0-62

\*No filler is needed.

Build clay in UAN or UAN plus water mixtures at a 7:1 or less ratio. These amounts of clay are the suggested starting point based on experience. The quantity of clay may have to be increased to fit the individual requirements of the user. If trace elements or secondary nutrients are added, subtract the weight of the additive(s) from the the weight of water in the formulation.

These formulations are the results of laboratory testing and you may find some adjustments have to be made depending on the type of mixing and spreading equipment you have.

## Formulation

### Sulf-N® Ammonium Sulfate, 21-0-0-24S

#### UAN 28, 28-0-0

Guaranteed Analysis				Pounds of Product				Total
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S	Sulf-N®	UAN 28	Water	Clay	Pounds
22	0	0	11	917	885	148	50	2000
23	0	0	10	834	1018	98	50	2000
24	0	0	9	750	1154	46	50	2000
24	0	0	8	667	1214	69	50	2000
24	0	0	7	585	1278	89	50	2000
25	0	0	6	500	1414	36	50	2000
25	0	0	5	417	1472	61	50	2000
25	0	0	4	333	1536	81	50	2000
26	0	0	3	250	1672	28	50	2000
26	0	0	2	167	1728	55	50	2000
26	0	0	1	83	1793	74	50	2000

## Formulation

### Sulf-N® Ammonium Sulfate, 21-0-0-24S

#### UAN 30, 30-0-0

Guaranteed Analysis				Pounds of Product				Total
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S	Sulf-N®	UAN 30	Water	Clay	Pounds
22	0	0	11	917	827	206	50	2000
23	0	0	10	834	950	166	50	2000
24	0	0	9	750	1077	123	50	2000
25	0	0	8	667	1200	83	50	2000
25	0	0	7	585	1260	107	50	2000
26	0	0	6	500	1384	66	50	2000
26	0	0	5	417	1443	90	50	2000
27	0	0	4	333	1567	50	50	2000
27	0	0	3	250	1627	73	50	2000
27	0	0	2	167	1683	100	50	2000
28	0	0	1	83	1808	58	50	2000

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**Formulation**

**Sulf-N® Ammonium Sulfate, 21-0-0-24S**

**UAN 32, 32-0-0**

Guaranteed Analysis				Pounds of Product				Total
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S	Sulf-N®	UAN 32	Water	Clay	Pounds
22	0	0	11	917	775	285	50	2000
23	0	0	10	834	891	225	50	2000
24	0	0	9	750	1009	191	50	2000
25	0	0	8	667	1125	158	50	2000
25	0	0	7	585	1181	186	50	2000
26	0	0	6	500	1297	153	50	2000
27	0	0	5	417	1416	117	50	2000
28	0	0	4	333	1532	85	50	2000
28	0	0	3	250	1587	113	50	2000
29	0	0	2	167	1703	80	50	2000
30	0	0	1	83	1819	48	50	2000

**Formulation**

**Sulf-N® Ammonium Sulfate, 21-0-0-24S**

**Ammonium Phosphate, 10-34-0**

Guaranteed Analysis				Pounds of Product				Total
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S	Sulf-N®	APP	Water	Clay	Pounds
10	30	0	1.0	90	1765	95	50	2000
10	28	0	2.0	168	1648	134	50	2000
11	26	0	4.0	333	1530	87	50	2000
12	24	0	5.6	471	1412	67	50	2000
13	21	0	8.0	667	1235	48	50	2000
14	18	0	10.0	838	1059	53	50	2000
15	15	0	12.0	1009	883	58	50	2000
15	16	0	11.8	989	942	19	50	2000

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## Formulation

**Sulf-N® Ammonium Sulfate, 21-0-0-24S**

**Ammonium Polyphosphate, 10-34-0**

**Potash, 0-0-62**

Guaranteed Analysis				Pounds of Product					Total
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S	Sulf-N®	APP	KCI	Water	Clay	Pounds
4	5	31	3.0	250	295	1000	405	50	2000
4	6	30	2.5	213	353	968	416	50	2000
5	5	30	4.0	336	295	968	357	50	2000
5	8	28	3.0	253	470	903	324	50	2000
5	10	20	2.3	196	589	646	519	50	2000
6	8	25	4.0	348	470	806	326	50	2000
8	16	16	3.7	314	942	517	177	50	2000
9	6	18	8.0	689	353	580	328	50	2000
10	5	15	9.7	809	295	483	363	50	2000
10	10	10	8.0	673	589	323	365	50	2000
10	10	25	2.4	200	589	807	354	50	2000
10	15	10	6.4	534	883	323	210	50	2000
10	20	10	4.8	400	1177	323	50	50	2000
10	28	3	2.0	168	1647	97	38	50	2000
11	18	9	6.5	544	1058	291	57	50	2000
11	22	5	5.1	431	1294	162	63	50	2000
11	26	2	3.8	319	1529	65	37	50	2000
12	21	3	6.6	555	1236	97	62	50	2000

### Contact AdvanSix

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

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