



Texas Weather Modification Association

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Innovation and ingenuity led developers to produce flares with results that are predictably accurate. After extensive testing in the laboratory and field, Texas Weather Modification relies on the RS#3 flare for its operations. These flares, produced in Texas, compare at the top with any flare manufactured world-wide, and their reliability is second to none.

Our flares can be used with a wing mount or ejectable mount, as shown, to accommodate your cloud seeding operations.

Through the efforts of Dr. Bill Finnegan, we are always striving for better and faster pyros. Dr. Finnegan served twenty eight years as the Navy's top pyro chemist, designing weather modification pyros. After retiring from the Navy, Dr. Finnegan headed the cloud chamber facilities at Colorado State University for seven years; since retiring from CSU, he has been active at the Desert Research Institute in Nevada.

Review the yield results below from experiments conducted by our team. For more information on this data or on ordering our flares, please [contact us](#).



Yield Results (all at 1.5 gm m⁻³ LWC)

Pyro type	Temp (°C)	LWC (g m ⁻³)	Raw Yield (g pyro)	Corr. Yield (g ¹ pyro)	Corr. Yield (pyro ¹)	63% time (min)	90% time (min)
#3	-6.0	1.5	1.49x10 ¹⁰	1.77x10 ⁹	4.88x10 ¹¹	N/A	N/A
#2	-6.0	1.5	5.72x10 ⁹	6.63x10 ⁸	1.93x10 ¹¹	N/A	N/A
#1	-6.0	1.5	9.26x10 ⁹	1.03x10 ⁹	2.57x10 ¹¹	N/A	N/A
#RS3	-6.0	1.5	2.20x10 ¹¹	2.63x10 ⁷	1.05x10 ¹³	0.96	7.61
#RS3	-6.0	1.5	1.20x10 ¹¹	2.41x10 ⁷	9.63x10 ¹²	0.96	7.61
#3, wet*	-6.0	1.5	2.08x10 ¹⁰	2.26x10 ⁹	5.73x10 ¹¹	N/A	N/A
#2, wet*	-6.0	1.5	1.20x10 ¹⁰	1.30x10 ⁹	3.56x10 ¹¹	N/A	N/A
#1, wet*	-6.0	1.5	4.13x10 ⁹	4.58x10 ⁸	1.24x10 ¹¹	N/A	N/A
#RS3, wet*	-6.0	1.5	1.28x10 ¹⁰	1.53x10 ⁷	6.13x10 ¹¹	1.3	8.84
#RS3, wet*	-6.0	1.5	3.57x10 ¹⁰	4.27x10 ⁷	1.71x10 ¹²	1.3	8.84
#3	-8.0	1.5	4.57x10 ¹⁰	6.71x10 ⁹	1.65x10 ¹²	9.8	22.56
#3	-8.0	1.5	4.01x10 ¹¹	5.89x10 ¹¹	1.47x10 ¹⁵	9.8	22.56
#2	-8.0	1.5	9.05x10 ¹⁰	1.60x10 ¹⁰	4.35x10 ¹²	16.11	37.09
#2	-8.0	1.5	2.84x10 ¹¹	5.03x10 ¹¹	1.38x10 ¹⁵	16.11	37.09
#1	-8.0	1.5	9.48x10 ¹¹	1.29x10 ¹²	3.41x10 ¹⁵	9.06	20.85
#1	-8.0	1.5	6.77x10 ¹¹	9.20x10 ¹¹	2.30x10 ¹⁵	9.06	20.85
#RS3	-8.0	1.5	1.57x10 ¹²	1.65x10 ¹²	6.62x10 ¹⁵	0.74	1.71
#3	-10.0	1.5	2.97x10 ¹²	3.32x10 ¹²	8.19x10 ¹⁵	1.12	4.62
#3	-10.0	1.5	1.75x10 ¹²	1.95x10 ¹²	4.75x10 ¹⁵	1.12	4.62
#2	-10.0	1.5	1.69x10 ¹²	2.02x10 ¹²	5.59x10 ¹⁵	2.29	5.27
#2	-10.0	1.5	1.08x10 ¹²	1.29x10 ¹²	3.59x10 ¹⁵	2.29	5.27
#1	-10.0	1.5	3.49x10 ¹²	3.62x10 ¹²	9.56x10 ¹⁵	0.92	3.95
#1	-10.0	1.5	4.26x10 ¹²	4.67x10 ¹²	1.17x10 ¹⁶	0.92	3.95

N/A: insufficient data to determine
 *: single dilution with air saturated at 30°C

RF
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Manuf.



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