







Nozzles for BASF's Engenia® Herbicide

Greenleaf Technologies has five nozzles approved for BASF's Engenia® herbicide, our TDXL11003-D, TDXL11004-D, TDXL11005-D, TDXL11006-D, and the SD110-10 for PWM Systems. Only the D version of the TDXL in approved sizes may be used with Engenia® herbicide. The TDXL11004-D and TDXL11005-D nozzles require an approved DRA(drift reduction adjuvant) for use with Engenia®. Visit www.EngeniaTankMix.com for more information about requirements and recommendations. Best pattern distribution with the approved TDXL-D nozzles is achieved with pressures of 40 psi and above.

The SD110-10 SoftDrop Nozzle from Greenleaf Technologies is the only size 10 PWM nozzle approved for use with Engenia® herbicide that connects directly to a standard nozzle body, no adapter needed. The SoftDrop is particularly well-suited for PWM systems, operating between 10 and 50 Hertz. The SD110-10 is approved for a broad operating range, from 20-60PSI.

The BASF Engenia® label requires a minimum of 15 GPA.

15" Engenia® Tabulation Chart

	Liquid Pressure PSI	Droplet Size ASABE	Nozzle Capacity GPM	GALLONS PER ACRE BASED ON 15" NOZZLE SPACING										
				4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH	13 MPH	14 MPH
 TDXL11003-D	20	UC	0.21	21.0	16.8	14.0	12.0	10.5	9.3	8.4	7.6	7.0	6.5	6.0
	30	UC	0.26	25.7	20.6	17.1	14.7	12.9	11.4	10.3	9.4	8.6	7.9	7.3
	40	UC	0.30	29.7	23.8	19.8	17.0	14.9	13.2	11.9	10.8	9.9	9.1	8.5
	50	XC	0.34	33.2	26.6	22.1	19.0	16.6	14.8	13.3	12.1	11.1	10.2	9.5
	60	XC	0.37	36.4	29.1	24.2	20.8	18.2	16.2	14.5	13.2	12.1	11.2	10.4
	70	XC	0.40	39.3	31.4	26.2	22.5	19.6	17.5	15.7	14.3	13.1	12.1	11.2
	80	VC	0.42	42.0	33.6	28.0	24.0	21.0	18.7	16.8	15.3	14.0	12.9	12.0
	90	VC	0.45	44.6	35.6	29.7	25.5	22.3	19.8	17.8	16.2	14.9	13.7	12.7
	 TDXL11004-D	20	UC	0.28	28.0	22.4	18.7	16.0	14.0	12.4	11.2	10.2	9.3	8.6
30		UC	0.35	34.3	27.4	22.9	19.6	17.1	15.2	13.7	12.5	11.4	10.6	9.8
40		UC	0.40	39.6	31.7	26.4	22.6	19.8	17.6	15.8	14.4	13.2	12.2	11.3
50		UC	0.45	44.3	35.4	29.5	25.3	22.1	19.7	17.7	16.1	14.8	13.6	12.6
60		XC	0.49	48.5	38.8	32.3	27.7	24.2	21.6	19.4	17.6	16.2	14.9	13.9
70		XC	0.53	52.4	41.9	34.9	29.9	26.2	23.3	21.0	19.0	17.5	16.1	15.0
80		XC	0.57	56.0	44.8	37.3	32.0	28.0	24.9	22.4	20.4	18.7	17.2	16.0
90		XC	0.60	59.4	47.5	39.6	33.9	29.7	26.4	23.8	21.6	19.8	18.3	17.0
 TDXL11005-D		20	UC	0.35	35.0	28.0	23.3	20.0	17.5	15.6	14.0	12.7	11.7	10.8
	30	UC	0.43	42.9	34.3	28.6	24.5	21.4	19.1	17.1	15.6	14.3	13.2	12.2
	40	UC	0.50	49.5	39.6	33.0	28.3	24.8	22.0	19.8	18.0	16.5	15.2	14.1
	50	UC	0.56	55.3	44.3	36.9	31.6	27.7	24.6	22.1	20.1	18.4	17.0	15.8
	60	UC	0.61	60.6	48.5	40.4	34.6	30.3	26.9	24.2	22.0	20.2	18.7	17.3
	70	UC	0.66	65.5	52.4	43.7	37.4	32.7	29.1	26.2	23.8	21.8	20.1	18.7
	80	XC	0.71	70.0	56.0	46.7	40.0	35.0	31.1	28.0	25.5	23.3	21.5	20.0
	90	XC	0.75	74.3	59.4	49.5	42.4	37.1	33.0	29.7	27.0	24.8	22.8	21.2
	 TDXL11006-D	20	UC	0.42	42.0	33.6	28.0	24.0	21.0	18.7	16.8	15.3	14.0	12.9
30		UC	0.52	51.4	41.2	34.3	29.4	25.7	22.9	20.6	18.7	17.1	15.8	14.7
40		UC	0.60	59.4	47.5	39.6	33.9	29.7	26.4	23.8	21.6	19.8	18.3	17.0
50		UC	0.67	66.4	53.1	44.3	37.9	33.2	29.5	26.6	24.1	22.1	20.4	19.0
60		UC	0.73	72.7	58.2	48.5	41.6	36.4	32.3	29.1	26.5	24.2	22.4	20.8
70		UC	0.79	78.6	62.9	52.4	44.9	39.3	34.9	31.4	28.6	26.2	24.2	22.5
80		UC	0.85	84.0	67.2	56.0	48.0	42.0	37.3	33.6	30.5	28.0	25.8	24.0
90		UC	0.90	89.1	71.3	59.4	50.9	44.6	39.6	35.6	32.4	29.7	27.4	25.5
 SD110-10		20	UC	0.71	70.0	56.0	46.7	40.0	35.0	31.1	28.0	25.5	23.3	21.5
	30	UC	0.87	85.7	68.6	57.2	49.0	42.9	38.1	34.3	31.2	28.6	26.4	24.5
	40	UC	1.00	99.0	79.2	66.0	56.6	49.5	44.0	39.6	36.0	33.0	30.5	28.3
	50	UC	1.12	110.7	88.5	73.8	63.2	55.3	49.2	44.3	40.2	36.9	34.1	31.6
	60	UC	1.22	121.2	97.0	80.8	69.3	60.6	53.9	48.5	44.1	40.4	37.3	34.6
	70		1.32	131.0	104.8	87.3	74.8	65.5	58.2	52.4	47.6	43.7	40.3	37.4
	80		1.41	140.0	112.0	93.3	80.0	70.0	62.2	56.0	50.9	46.7	43.1	40.0
	90		1.50	148.5	118.8	99.0	84.9	74.3	66.0	59.4	54.0	49.5	45.7	42.4

Yellow highlighting represents operating range of each nozzle for Engenia®

Engenia® is a US EPA Restricted Use Pesticide. Always read and follow label directions. Additional state restrictions may apply.
Engenia® is a registered trademark of BASF Corporation. ASABE droplet size based on University of Nebraska-Lincoln wind tunnel testing.