	Plant	Florist chrysa	nthemum	88	3(09001)	Primary essential character	
No	Cha	racters	No. of samples	Methods		Rank or measurement unit	Remarks
1	Stem lengt	:h	5 plants	Measurement	cm (integ	ger)	Stem length at the flowering stage
2	Number of	nodes	5 plants	Measurement	(integer	c)	Number of nodes at the flowering stage
3	Stalk leng		5 plants	Measurement	mm (integ	ger)	Stalk length of terminal flowers
4	Number of	flowers	5 plants	Measurement	(integer	c)	Number of flowers on a stem
5	Date of fl	owering	Block	Observation	date		Date when terminal flowers of 80% of stems have bloomed in the block
6	Leaf margi	n serration	5 plants	Measurement	1:<=0.09 5:>=0.90		Measure the 10th leaf basipetally from the flag leaf
7	Number of	ray florets	5 flowers	Measurement	(integer	s)	
8	Number of flowers	tubulous	5 flowers	Measurement	(integer	e)	
9	Petal shap	pe (I)	5 flowers	Observation	1:Straigh	nt 9:Others	Others are subdivided into the next item
10	Petal shap	pe (II)	5 flowers	Observation	3:Piped t	ed 1:Gutter shaped 2:Piped type 1 type 2 4:Spatulate 5:Reflexed type 1 ed type 2 7:Dentate 8:Anemone type	Piped type 1:flat tip, piped type 2:curved tip, reflexed type 1:loosely reflexed, reflexed type 2:tightly reflexed
11	Number of flowers	tubulous	5 flowers	Measurement	5:90-109	n 2:30-49 mm 3:50-49 mm 4:70-89 mm mm 6:110-149 mm 7:150-199 mm 8:200- 0:>=250 mm	Measure at the full flowering stage
12	Petal colo	or of ray	5 flowers	Observation			Indicate reference number of RHS color chart

	Plant	Florist chrysa	nthemum		88(0900	)1)	Primary optional character	
No	Cha	aracters	No. of samples	Methods	s		Rank or measurement unit	Remarks
1	Plant typ	е	5 plants	Observatio	on 3:	Erect	5:Semi-erect 7:Prostrate	
2	Plant hei	ght	5 plants	Observatio	on 1:	Dwarf	3:Tall	
3	Dwarf typ	е	5 plants	Observatio	on 1:	Type 1	3:Type 2	Type 1: without internode elongation. Type 2:repeated branching forming a globe
4	Plant hei		5 plants	Observatio	on 3:	Low 5	:Intermediate 7:High	
5	Number of	lateral buds	5 plants	Observatio		None or	r very few 3:Few 5:Intermediate	
6	Branching decapitat		5 plants	Observatio	on 3:	Few 5	:Intermediate 7:Many	
7	Number of at leaf a	lateral buds	5 plants	Observatio	on 0:	One 9	:Two or more	
8	Position buds	of lateral	5 plants	Observatio	on 1:	Normal	9:High	High: lateral bud(s) above to leaf axil
9	Stem diam	eter	5 plants	Measuremen	nt 1:	<=3.9 r	mm 2:4-5.9 mm 3:6-7.9 mm 4:>=8 mm	Measure at one third from the top of plant height
10	Internode	length	5 plants	Measuremen			2:10-19 mm 3:20-29 mm 4:30-39 mm mm 6:>=50 mm	Average of 5th leaf through 15th leaf basipetally from the flag leaf
11	Vertical	grooves on	5 plants	Observatio	on 3:	Low 5	:Intermediate 7:High	
12	Stem stre	ngth	5 plants	Observatio	on 3:	Weak 5	5:Intermediate 7:Tough	Observe degree of stem hanging by keeping stem horizontally
13	Stem colo	r	5 plants	Observatio	5:		green 2:Green 3:Brown 4:Light brown sh brown 6:Reddish purple 7:Purple	Observe the 10th leaf basipetally from the flag leaf

	Plant	Florist chrysa	nthemum		88(0	9001)	Primary optional character	
No	Cha	racters	No. of samples	Methods	s		Rank or measurement unit	Remarks
14	Stem zigza	ag bend	5 plants	Observatio	on	0:Absent	9:Present	
15	Diameter of stalk	of flower	5 flowers	Measuremen	nt	3.9 mm 5	2:1.0-1.9 mm 3:2.0-2.9 mm 4:3.0- :4.0-4.9 mm 6:5.0-5.9 mm 7:6.0-6.9 -7.9 mm 9:>8.0 mm	Measure the widest diameter at one third distance from flower stalk top
16	Sprouting flower sta		5 plants	Measuremen	nt	3:<=29 4	:30-39 5:40-49 6:50-59 7:>=60	
17	Frequency lateral bu	of secondary	5 plants	Measuremen	nt	1:0-24%	2:25-49% 3:50-74% 4:75-99%	
18	Leaf lengt	ch	5 leaves	Measuremen	nt		2:25-49 mm 3:50-74 mm 4:75-99 mm mm 6:125-149 mm 7:150-199 mm m	Measure the tenth leaf basipetally from the flag leaf (petiole is excluded)
19	Leaf width	ı	5 leaves	Measuremen	nt		2:10-24 mm 3:25-49 mm 4:50-74 mm m 6:100-124 mm 7:125-149 mm 8:>=150	Measure the 10th leaf basipetally from the flag leaf
20	Length/wic	dth ratio of	5 leaves	Measuremen	nt	1:<=0.79 5:>=2	2:0.8-1.19 3:1.2-1.59 4:1.6-1.99	Ratio of leaf length to width at the 10th leaf
21	Shape of 1	Leaf bottom	5 leaves	Observatio	on	3:Emargina	ate 5:Plain 7:Convex	Observe the 10th leaf basipetally from the flag leaf
22	Shape of 1	leaf tip	5 leaves	Observatio	on	3:Acumina	te 5:Acute 7:Obtuse	Observe the 10th leaf basipetally from the flag
23	Petiole le length + p length)	ength/(leaf	5 leaves	Measuremen	nt	1:<0.19	2:0.2-0.24 3:>0.25	
24	Secondary leaf	serration of	5 leaves	Observatio	on	1:Very sl: 7:Severe	ight 3:Slight 5:Intermediate	Observe the 10th leaf basipetally from the flag
25	Base shape	e of primary	5 leaves	Observatio	on	3:Acute	5:Intermediate 7:Round	Observe the 10th leaf basipetally from the flag leaf

	Plant	Florist chrysa	nthemum	8	88(090	01)	Primary optional character	
No	Cha	racters	No. of samples	Methods	5		Rank or measurement unit	Remarks
26	Claw in th	ne base of	5 leaves	Observatio	on 0:	:None 9	:Present	Observe the 10th leaf basipetally from the flag
27	Margins of		5 leaves	Observatio	on 3:	:Divergi	ng 5:Parallel 7:Converging	Observe the 10th leaf basipetally from the flag
28	Leaf color		5 leaves	Observatio	on 3:	Pale 5	:Intermediate 7:Dark	Observe the 10th leaf basipetally from the flag leaf at flowering stage
29	Leaf color		5 leaves	Observatio	on 3:	:Pale 5	:Intermediate 7:Dark	Observe the 10th leaf basipetally from the flag leaf at flowering stage
30	Leaf gloss	siness	5 leaves	Observatio	on 3:	:Weak 5	:Intermediate 7:Strong	Observe the 10th leaf basipetally from the flag leaf at flowering stage
31	Leaf thick	iness	5 leaves	Measuremen	nt 3:	:<=0.39	mm 5:0.49-0.59 mm 7:>=0.60 mm	Measure the 10th leaf basipetally from the flag leaf at flowering stage
32	Attaching petiole to		5 leaves	Measuremen	nt 3:	:<=-16	5:-15-+15 7:>=+15	Measure the angle of petiole base and blade base at the 10th leaf from the flag leaf
33	Attaching to stem	angle of leaf	5 leaves	Measuremen	at 3:	:<=-16	5:-15-+15 7:>=+15	Measure the angle of petiole base and blade top at the 10th leaf from the flag leaf
34	Curvature	of leaf blade	5 leaves	Observatio	on 3:	:Upwards	s 5:Horizontal 7:Downwards	Observe the 10th leaf basipetally from the flag leaf at flowering stage
35	Leaf uneve	eness	5 plants	Observatio	on 3:	:Weak 5	:Intermediate 7:Strong	Observe the 10th leaf basipetally from the flag leaf at flowering stage
36	Existence	of stipule	5 plants	Observatio	on 3:	:Almost	none 5:Half present 7:Mostly present	Evaluate the typical type
37	Distributi	on of stipule	5 plants	Observatio		Mostly	on one side 5:Mixed 7:Mostly on both	Evaluate the typical type
38	Shape of s	stipule	5 plants	Observatio	on 3:	:Not lob	par 5:Dual-lobar 7:3 or 4 lobar	Evaluate the typical type

	Plant	Florist chrysa	nthemum		88(09	0001)	Primary optional character	
No	Ch	aracters	No. of samples	Method	ds		Rank or measurement unit	Remarks
39	Size of s	tipule	5 plants	Observation	on :	3:Small	5:Intermediate 7:Large	Evaluate the typical type
40	Color of	sucker	5 plants	Observation			2:Pale yellow brown 3:Pale pink purple 5:Purple 9:Other	Observe the winter sucker under the ground
41	Shape of	buds	5 plants	Measuremen	nt :	1:<=0.94	2:0.95-1.04 3:>=1.05	Measure just before involucre opening (ratio:height/diameter)
42	Flower ty	pe	5 plants	Observation	]	rays 4:0	floret 2:Up to 1.5 rays 3:2 to 4 Over 5 rays type 1 5:Over 5 rays type 5 rays type 3	Type 1:open center at harvest, type 2:open center at full anthesis, type 3:not exposed
43	Diameter flower pa	of tubulous	5 flowers	Measuremen	į		2:10-14 mm 3:15-19 mm 4:20-24 mm nm 6:30-39 mm 7:40-49 mm 8:50-59 mm	Observe for the cultivar with open center by anthesis
44	Distribut tubulous		5 flowers	Observation	on :	1:Centere	ed 9:Sparse	
45	Length of	tubulous	5 flowers	Measuremen			nm 2:5.0-5.9 mm 3:6.0-6.9 mm 4:7.0- 5:8.0-8.9 mm 6:9.0-9.9 mm 7:>=10.0 mm	Include pistil and ovary
46	Shape of ray flore	-	5 flowers	Observation	on I	1:Acute	2:Round 3:Dentate 4:With mucro	
47	Longitudi	nal axis of	5 flowers	Observation		_	nt 2:Reflexed 3:Incurved 4:Twisted 6:Drooping	Observe the longitudinal direction to select the typical rank
48	Longitudi	nal axis of	5 flowers	Observation			nt 2:Reflexed 3:Incurved 4:Twisted 6:Drooping	Observe the longitudinal direction to select the typical rank
49	Length of	ray floret	5 flowers	Measuremen	· I		2:10-19 mm 3:20-29 mm 4:30-39 mm mm 6:50-69 mm 7:70-89 mm 8:90-109 mm mm	Measure the outermost ray floret petal
50	Width of petal	ray floret	5 flowers	Measuremen	=	14.9 mm	nm 2:2.0-4.9 mm 3:5.0-9.9 mm 4:10.0- 5:15.0-19.9 mm 6:20.0-29.9 mm 9.9 mm 8:>=40.0 mm	Measure the outermost ray floret petal in natural condition

	Plant	Florist chrysa	nthemum	88(	09001)	Primary optional character	
No	Cha	aracters	No. of samples	Methods		Rank or measurement unit	Remarks
51	Angle of floret	outer ray	5 flowers	Measurement	1:<=-31	2:-3016 3:-15 - +15 4:>=16	Measure at the full flowering stage
52	Angle of floret at of flower	the beginning	5 flowers	Measurement	1:<=+15	2:+16 - +30 3:+31 - +45 4:>=+46	For cut, observe at harvest stage. For others, observe when the outermost rays elongate and expand.
53		om involucre	5 flowers	Measurement		2:10-19 mm 3:20-29 mm 4:30-39 mm mm 6:50-59 mm 7:60-79 mm 8:80-99 mm mm	Measure at the full flowering time
54	Position	of involucre	5 flowers	Measurement	1:Normal	9:Attached among florets	
55	Diameter	of involucre	5 flowers	Measurement		2:10-19 mm 3:20-29 mm 4:30-39 mm mm 6:>50 mm	Measure at the full flowering in natural condition
56	Coloratio	n on top side	5 flowers	Observation	4:Striped	m 2:Variegated on top 3:Mottled d 5:Variegated on bottom 6:White or tom 7:Other	
57	Color of petal	ray floret	5 flowers	Observation			Indicate reference number of RHS color chart
58	Color at	the flower	5 flowers	Observation	1:Same as	s outermost 9:Not same as outermost	Only for double or anemone type. Rank 9 is subdivided in the next item.
59	Color at	the flower	5 flowers	Observation		1:Purple 2:Red 3:Orange 4:Pale 5:Yellow 6:Yellow green 7:Green 9:White	
60	Color of	flower disk	5 flowers	Observation	1:Green 9:Other	2:Yellow green 3:Yellow 4:Brown	For open center cultivars, observe center before dehiscence
61	Diameter	of receptacle	5 flowers	Measurement	12.4 mm	mm 2:5.0-7.4 mm 3:7.5-9.9 mm 4:10.0- 5:12.5-14.9 mm 6:15.0-17.4 mm 9.9 mm 8:20.0-24.9 mm 9:>=25 mm	

	Plant	Florist chrysanthemum			88(09001)	88(09001) Primary optional character		haracter	
No	Characters Shape of receptacle		No. of samples	Method	ls	Rank or measurement unit		ent unit	Remarks
62	Shape of r	receptacle	5 flowers	Observation	on 1:Dome 4:Conic			3:Conical type	Dome type 1:flat dome, dome type 2:convex dome, conical type 1:flat conical, conical type 2:convex conical
63	Shape of i	nflorecence	5 plants	Observation	on 1:Conca	⁄e 2:F	Flat 3:Conica	4:Cylindrical	Observe by keeping lateral buds until

	Plant	Florist chrysa	nthemum		88(0900	1)	Secondary essential character	
No	Cha	racters	No. of samples	Method	s		Rank or measurement unit	Remarks
1	Response p	period to	5 plants	Measuremen	nt Wee	eks (ro	und to the 1st decimal place)	Weeks from the start of short day treatment to anthesis
2	Rosetting		5 plants	Observatio	5:3	-	ak 3:Weak 4:Slightly weak diate 6:Slightly strong 7:Strong rong	Observe under low temperature and short day conditions
3	Flowering	ability under	5 plants	Observatio		Interme	w 3:Low 4:Slightly low diate 6:Slightly high 7:High 8:Very	
4	Flowering	ability under	5 plants	Observatio		Interme	w 3:Low 4:Slightly low diate 6:Slightly high 7:High 8:Very	Delay of flowering under high temperature
5	Resistance rust	e to white	5 plants	Observatio		Interme	w 3:Low 4:Slightly low diate 6:Slightly high 7:High 8:Very	
6	Juvenility	Ý.	5 plants	Observatio	5:	-	ak 3:Weak 4:Slightly weak diate 6:Slightly strong 7:Strong rong	

	Plant	Florist chrysa	nthemum		88(0900	1)	Secondary optional character	
No	Cha	ıracters	No. of samples	Method	s		Rank or measurement unit	Remarks
1	Critical	day length	5 plants	Measuremen	nt Ho	ur (rou	and to the 1st decimal place)	Critical day length under the optimal temperature
2	Optimum c	ritical day	5 plants	Measuremen	nt Ho	ur (rou	and to the 1st decimal place)	Optimum critical day length under the optimal temperature
3	Position	of crown bud	5 plants	Observation	on 3:	Low 5:	Intermediate 7:High	Observe under long day condition
4	Stem elong		5 plants	Observation		Interme	ow 3:Low 4:Slightly low diate 6:Slightly low 7:High 8:Very	
5	Freezing	tolerance	5 plants	Observation		Interme	ow 3:Low 4:Slightly low diate 6:Slightly high 7:High 8:Very	
6	Tolerance exposure	to winter	5 plants	Observation		Interme	ow 3:Low 4:Slightly low diate 6:Slightly high 7:High 8:Very	
7	_	in development	5 flowers	Observation	on 0:	Absent	9:Present	Observe anthocyanin pigmentation under low temperature for white on yellow flowers
8	Anthocyan discolora high tempo	tion under	5 flowers	Observation	on 0:	Absent	9:Present	Observe anthocyanin discoloration under high temperature for red or pink cultivars
9	Disease r	esistance	5 plants	Observation		Interme	ow 3:Low 4:Slightly low diate 6:Slightly high 7:High 8:Very	Resistance to diseases other than white rust
10	Pest resi	stance	5 plants	Observatio		Interme	ow 3:Low 4:Slightly low diate 6:Slightly high 7:High 8:Very	
11	Tolerance moisture	to excessive	5 plants	Observatio		Interme	ow 3:Low 4:Slightly low diate 6:Slightly high 7:High 8:Very	

	Plant	Florist chrysa	nthemum		88(09001)	Secondary optional character	
No	Cha	racters	No. of samples	Method	S	Rank or measurement unit	Remarks
	Tolerance planting (	_	5 plants	Observatio	1 -	ow 3:Low 4:Slightly low ediate 6:Slightly high 7:High 8:Very	
13	Tolerance	to drought	5 plants	Observatio	_	ow 3:Low 4:Slightly low ediate 6:Slightly high 7:High 8:Very	

	Plant	Florist chrysa	nthemum	8	88(09001)	Tertiary essential character	
No	Cha	aracters	No. of samples	Methods	3	Rank or measurement unit	Remarks
1	Yield		Block	Measuremen	t Per squar	e meter (integer)	
2	Cut flowe:	r longevity	5 stems	Observation	1 - 1	or 3:Poor 4:Slightly poor diate 6:Slightly good 7:Good 8:Very	
3	Propagati	ng ability	Block	Observation	n 1:Easy 9	:Difficult	

	Plant F	Florist chrysa	nthemum		88(09001)	Tertiary optional character	
No	Char	racters	No. of samples	Method	s	Rank or measurement unit	Remarks
1	Fragrance		5 plants	Sensory	0:Absent	9:Present	