

Application Variety	Comparison Variety
<p>4. Stem</p> <p>___ Branching Pattern: 1=Solitary 2=Few Branches 3=Many Branches</p> <p>___ Branching Origin: 1=Not Basal Branching 2=Basal Branching</p> <p>___ Branch Attitude: 1=Upright 2=Semi-upright 3=Horizontal</p> <p>___ Strength: 1=Not Brittle 2=Brittle</p> <p>___ Flexibility: 1=Rigid 2=Flexible</p> <p>___ Anthocyanin: 1=Absent 2=Present along the vein 3=Present on entire stem</p> <p>___ Vesture: 1=Glabrous 2=Lightly Pubescent 3=Pubescent</p>	<p>4. Stem</p> <p>___ Branching Pattern</p> <p>___ Branching Origin</p> <p>___ Branch Attitude</p> <p>___ Strength</p> <p>___ Flexibility</p> <p>___ Anthocyanin</p> <p>___ Vesture</p>
<p>5. Leaf</p> <p>___ Pubescence (Dorsal Side): 1=Glabrous 2=Lightly Pubescent 3=Pubescent</p> <p>___ Pubescence (Ventral Side): 1=Glabrous 2=Lightly Pubescent 3=Pubescent</p> <p>___ Luster (Dorsal Side): 1=Shiny (Glossy) 2=Dull</p> <p>___ Luster (Ventral Side): 1=Shiny (Glossy) 2=Dull</p> <p>___ Shape: 1=Linear 2=Elliptic 3=Ovate 4=Obovate 5=Spatulate 6=Other (Specify) _____</p> <p>___ Margin: 1=Entire 2=Dentate 3=Lacerate 4=Other (Specify) _____</p> <p>___ ▲ mm Leaf Length</p> <p>___ ▲ mm Leaf Width</p> <p>___ Leaf Color: 1=Light Green 2=Medium Green 3=Dark Green 4=Other (Specify) _____</p> <p>Color Chart Name _____ Color Chart Code _____</p>	<p>5. Leaf</p> <p>___ Pubescence (Dorsal Side)</p> <p>___ Pubescence (Ventral Side)</p> <p>___ Luster (Dorsal Side)</p> <p>___ Luster (Ventral Side)</p> <p>___ Shape</p> <p>___ Margin</p> <p>___ ▲ mm Leaf Length</p> <p>___ ▲ mm Leaf Width</p> <p>___ Leaf Color</p> <p>Color Chart Code _____</p>
<p>6. Flower Head</p> <p>___ ▲ cm Head Diameter</p> <p>___ Position on Plant: 1=Spread Along Stem 2=At End of Stem Only</p> <p>___ Symmetry: 1=Symmetrical 2=Asymmetrical</p> <p>___ Shape: 1=Concave 2=Flattened 3=Convex 4=Globose 5=Other _____</p> <p>___ Doubleness: 1=Single 2=Semi Double 3=Double</p> <p>___ Odor: 1=Odorless 2=Faintly Sweet 3=Strong Odor</p>	<p>6. Flower Head</p> <p>___ ▲ cm Head Diameter</p> <p>___ Position on Plant</p> <p>___ Symmetry</p> <p>___ Shape</p> <p>___ Doubleness</p> <p>___ Odor</p>
<p>6a. Ray Flower</p> <p>___ ▲ mm Length</p> <p>___ ▲ mm Width (use outer row of first matured flower for size)</p> <p>___ Twisted Petals: 1=Flat 2=Twisted (Rayonante type) 3=Rolled (Gala type)</p> <p>___ Parallel Furrows: 1=None 2=Shallow 3=Deep</p> <p>___ Petal Shape: 1=Strap 2=Boat Shape 3=Needle-like (King type) 4=Other (Specify) _____</p> <p>___ Curvature: 1=Recurved 2=Straight 3=Incurved</p> <p>___ Apex Shape: 1=Obtuse 2=Acute</p> <p>___ Apex Dentation: 1=Entire 2=Mucronate 3=Retuse</p> <p>___ Pubescence (Dorsal Side): 1=Glabrous 2=Slightly Pubescent 3=Pubescent</p> <p>___ Pubescence (Ventral Side): 1=Glabrous 2=Slightly Pubescent 3=Pubescent</p>	<p>6a. Ray Flower</p> <p>___ ▲ mm Length</p> <p>___ ▲ mm Width</p> <p>___ Twisted Petals</p> <p>___ Parallel Furrows</p> <p>___ Petal Shape</p> <p>___ Curvature</p> <p>___ Apex Shape</p> <p>___ Apex Dentation</p> <p>___ Pubescence (Dorsal Side)</p> <p>___ Pubescence (Ventral Side)</p>
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<p>6a. Ray Flower (continued)</p> <p>___ Luster (Dorsal Side): 1=Shiny (Glossy) 2=Dull</p> <p>___ Luster (Ventral Side): 1=Shiny (Glossy) 2=Dull</p> <p>___ Color: 1=Monocolor 2=Bicolor 3=Other (specify) _____</p> <p>DORSAL SIDE:</p> <p>___ Color Pattern: 1=Solid 2=Striped 3=Spotted 4=Other (Specify) _____</p> <p>___ Primary Color: 1=White 2=Cream 3=Yellow 4=Pink 5=Salmon Pink 6=Scarlet 7=Red 8=Rose 9=Lavender 10=Azure Blue 11=Dark Blue 12=Other (Specify) _____</p> <p>Color Chart Name _____ Color Chart Code _____</p> <p>___ Secondary Color: 1=White 2=Cream 3=Yellow 4=Pink 5=Salmon Pink 6=Scarlet 7=Red 8=Rose 9=Lavender 10=Azure Blue 11=Dark Blue 12=Other (Specify) _____</p> <p>Color Chart Name _____ Color Chart Code _____</p> <p>VENTRAL SIDE:</p> <p>___ Color Pattern: 1=Solid 2=Striped 3=Spotted 4=Other (Specify) _____</p> <p>___ Primary Color: 1=White 2=Cream 3=Yellow 4=Pink 5=Salmon Pink 6=Scarlet 7=Red 8=Rose 9=Lavender 10=Azure Blue 11=Dark Blue 12=Other (Specify) _____</p> <p>Color Chart Name _____ Color Chart Code _____</p> <p>___ Secondary Color: 1=White 2=Cream 3=Yellow 4=Pink 5=Salmon Pink 6=Scarlet 7=Red 8=Rose 9=Lavender 10=Azure Blue 11=Dark Blue 12=Other (Specify) _____</p> <p>Color Chart Name _____ Color Chart Code _____</p>	<p>6a. Ray Flower (continued)</p> <p>___ Luster (Dorsal Side)</p> <p>___ Luster (Ventral Side)</p> <p>___ Color</p> <p>DORSAL SIDE:</p> <p>___ Color Pattern</p> <p>___ Primary Color</p> <p>Color Chart Code _____</p> <p>___ Secondary Color</p> <p>Color Chart Code _____</p> <p>VENTRAL SIDE:</p> <p>___ Color Pattern</p> <p>___ Primary Color</p> <p>Color Chart Code _____</p> <p>___ Secondary Color</p> <p>Color Chart Code _____</p>
<p>6b. DISK FLOWER</p> <p>___ Presence: 1=Absent 2=Present but covered 3=Present and uncovered</p> <p>___ mm Length (longest disk flower)</p> <p>___ Color Pattern: 1=Solid 2=Striped 3=Spotted 4=Other (Specify) _____</p> <p>___ Primary Color: 1=White 2=Cream 3=Yellow 4=Pink 5=Salmon Pink 6=Scarlet 7=Red 8=Rose 9=Lavender 10=Azure Blue 11=Dark Blue 12=Other (Specify) _____</p> <p>Color Chart Name _____ Color Chart Code _____</p> <p>___ Secondary Color: 1=White 2=Cream 3=Yellow 4=Pink 5=Salmon Pink 6=Scarlet 7=Red 8=Rose 9=Lavender 10=Azure Blue 11=Dark Blue 12=Other (Specify) _____</p> <p>Color Chart Name _____ Color Chart Code _____</p> <p>___ Stigma Height: 1=Below Anthers 2=Same as Anthers 3=Above Anthers</p>	<p>6b. DISK FLOWER</p> <p>___ Presence</p> <p>___ mm Length</p> <p>___ Color Pattern</p> <p>___ Primary Color</p> <p>Color Chart Code _____</p> <p>___ Secondary Color</p> <p>Color Chart Code _____</p> <p>___ Stigma Height</p>
<p>7. Involucre</p> <p>___ mm Length</p> <p>___ mm Diameter</p> <p>___ Shape: 1=Cylindrical 2=Campanulate 3=Urceolate 4=Funnel-shaped</p> <p>___ Number of Involucre Bracts: 1=Few 2=Intermediate 3=Many</p>	<p>7. Involucre</p> <p>___ mm Length</p> <p>___ mm Diameter</p> <p>___ Shape</p> <p>___ Number of Involucre Bracts</p>
Application Variety	Comparison Variety

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8. Seed ___ Coat Pattern: 1=Solid 2=Mottled 3=Spotted ___ mm Length	8. Seed ___ Coat Pattern ___ mm Length
9. Disease Resistance (1=Most Susceptible; 9=Most Resistant) ___ Fusarium Wilt ___ Root Rot ___ Rust ___ Gray Mold ___ Aster Yellows ___ Other (Specify) _____	9. Disease Resistance ___ Fusarium Wilt ___ Root Rot ___ Rust ___ Gray Mold ___ Aster Yellows ___ Other (Specify) _____
10. Insect Resistance (1=Most Susceptible; 9=Most Resistant) ___ Leafhopper ___ Aphids ___ Black Blister Beetle ___ Tarnished Plant Bug ___ Mites ___ Other Insects (Specify) _____	10. Insect Resistance ___ Leafhopper ___ Aphids ___ Black Blister Beetle ___ Tarnished Plant Bug ___ Mites ___ Other Insects (Specify) _____

H. Comments: Attach ONE photographic print of the application variety and the comparison variety described above, indicating the identity of each variety. This photograph should show flower heads of each variety at a magnification sufficient to identify most of the verbal descriptors given above. (Additional photographs in support of this application may be supplied as part of the Exhibits B or D.)

REFERENCES:

- Bailey, L. H. 1971. *Manual of Cultivated Plants*, (Rev.) McMillan.
- Nechansky. 1967. *Systematic Studies on Cultivated China Asters*. Preslia, 39:122-50.
- Wit, F. 1936. *Contributions to the Genetics of the China Aster*. Genetica, 19:1-104.

Color: Munsell Book of Color, Royal Horticultural Society Colour Chart, Nickerson's or any recognized color fan may be used to determine the color of the variety.
