

# VNG-4022

## ANNOUNCING VIRACON'S NEWEST HIGH-PERFORMANCE LOW-E COATING!

### VNG-4022 COMBINES SUPERIOR NEUTRAL GRAY AESTHETICS AND EXCELLENT PERFORMANCE

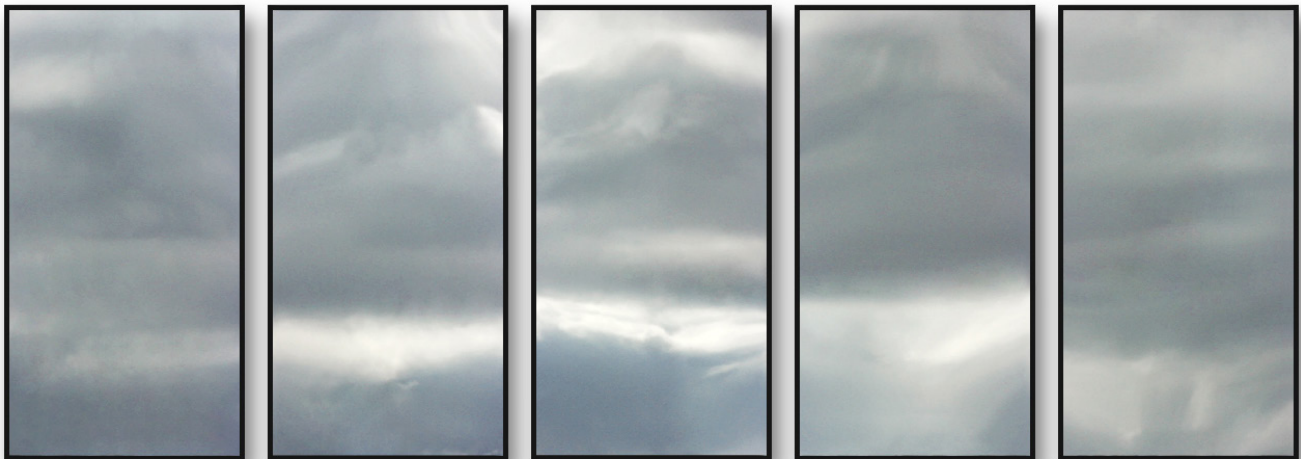
Viracon's VNG-4022 is our newest solar control architectural glass coating that combines exceptional performance with a pleasing appearance. With a Visible Light Transmission (VLT) of 40%, Solar Heat Gain Coefficient (SHGC) of 0.22, VNG-4022 is amongst the higher performing low-e coatings on the market. Featuring mid-range exterior reflectance and a discrete and pleasant neutral-gray aesthetic, once again Viracon develops a market-leading coating affording architects yet another choice to address demanding performance and aesthetic requirements.

Viracon asked Architects and Building Designers what they were looking for in a low-e coating, and their feedback set the strict requirements for our coating development team, and resulted in the creation of Viracon Neutral Gray, or VNG-4022. This new VNG coating was developed to meet those desired attributes of neutral gray aesthetics, great solar performance, and a mid-range exterior reflectance. We're sure you'll love the newest member of our renowned portfolio of commercial low-e coatings, destined to be another Viracon classic.



#### VNG-4022 KEY BENEFITS:

- + *Market leading aesthetics – pleasing neutral gray appearance and mid-level reflectance – at all viewing angles!*
- + *Exceptional performance – balanced VLT and low SHGC improve occupant comfort and reduce energy costs.*
- + *Superior design options – combine VNG-4022 with Viracon's broad selection of fabrication options to further enhance performance and aesthetics.*



VNG1-4022  
VLT 40%  
SHGC 0.22

*The reflected colors of the images above are viewed from the exterior and are provided as a reference for the visual aesthetics of Viracon VNE-4022. Sky conditions, viewing angle and other factors can influence perceived color. Viracon recommends viewing actual glass samples prior to final product selection. Visit [viracon.com](http://viracon.com) for more information.*

## SOLAR OPTICAL PROPERTIES AND THERMAL CHARACTERISTICS (AIR)

(1" OA) - 1/4"(6mm) on designated substrate - 1/2"(13.2mm) airspace - AIR filled - 1/4"(6mm) Clear (or Low-Iron)

Nomenclature <sup>2</sup>	Transmittance			Reflectance		U-Value						
	Visible	Solar	UV	Vis-Out	Vis-in	Solar	Winter	Summer	SC	SHGC	RHG	LSG
VNG1-4022	40%	17%	6%	19%	16%	32%	0.29	0.26	0.25	0.22	54	1.82
VNG2-4022	34%	13%	3%	15%	16%	12%	0.29	0.26	0.22	0.20	49	1.70
VNG3-4022	20%	9%	3%	8%	15%	13%	0.29	0.26	0.18	0.16	40	1.25
VNG19-4022	29%	12%	4%	12%	15%	17%	0.29	0.26	0.21	0.19	47	1.53
VNG24-4022	42%	19%	8%	20%	16%	44%	0.29	0.26	0.25	0.22	54	1.91
VNG26-4022	25%	11%	4%	10%	15%	14%	0.29	0.26	0.20	0.18	44	1.39
VNG27-4022	19%	8%	2%	8%	15%	7%	0.29	0.26	0.18	0.15	39	1.27
VNG31-4022	42%	19%	8%	20%	17%	45%	0.29	0.26	0.25	0.22	54	1.91
VNG35-4022	42%	18%	7%	20%	16%	40%	0.29	0.26	0.25	0.22	54	1.91

## SOLAR OPTICAL PROPERTIES AND THERMAL CHARACTERISTICS (ARGON)

(1" OA) - 1/4"(6mm) on designated substrate - 1/2"(13.2mm) airspace - ARGON filled - 1/4"(6mm) Clear (or Low-Iron)

Nomenclature <sup>2</sup>	Transmittance			Reflectance		U-Value						
	Visible	Solar	UV	Vis-Out	Vis-in	Solar	Winter	Summer	SC	SHGC	RHG	LSG
VNG1-4022	40%	17%	6%	19%	16%	32%	0.24	0.20	0.24	0.21	51	1.90
VNG2-4022	34%	13%	3%	15%	16%	12%	0.24	0.20	0.21	0.18	45	1.89
VNG3-4022	20%	9%	3%	8%	15%	13%	0.24	0.20	0.17	0.15	36	1.33
VNG19-4022	29%	12%	4%	12%	15%	17%	0.24	0.20	0.20	0.18	43	1.61
VNG24-4022	42%	19%	8%	20%	16%	44%	0.24	0.20	0.25	0.21	52	2.00
VNG26-4022	25%	11%	4%	10%	15%	14%	0.24	0.20	0.19	0.17	41	1.47
VNG27-4022	19%	8%	2%	8%	15%	7%	0.24	0.20	0.16	0.14	35	1.36
VNG31-4022	42%	19%	8%	20%	17%	45%	0.24	0.20	0.25	0.21	52	2.00
VNG35-4022	42%	18%	7%	20%	16%	40%	0.24	0.20	0.25	0.21	52	2.00

Viracon's solar and optical performance data represent center-of-glass information based on the National Fenestration Rating Council measurement standards and are calculated using Lawrence Berkeley National Laboratory's (LBL) WINDOW 7 software. Values are nominal—values in as-delivered product may vary according to manufacturing quality tolerances.

1. The performance data above applies to insulating glass with two plies (coated outboard; uncoated inboard) of 1/4" (6mm) glass and a 1/2" (13.2mm) airspace. Viracon

VNG-4022 is applied to the second (#2) surface. When low iron glass is used [Optiwhite™ (#24); UltraClear® (#31); Pure Mid Iron™ (#35)], both plies of the unit are composed of the given low iron substrate.

2. VNG-4022 can only be used with heat treated glass.

3. Available in maximum dimensions of 130" x 236" (3302mm x 5994mm).

<sup>1</sup> SC = Shading Coefficient; RHG = Relative Heat Gain; SHGC = Solar Heat Gain Coefficient; LSG = Light to Solar Heat Gain ratio

<sup>2</sup> Viracon coating Nomenclature: Example = VNG1-4022, where the number following "VNG" is a color code for the outboard substrate as per following:

Outboard Glass Substrate Color Codes = 1-Clear, 2-Green, 3-Gray, 19-CrystalGray®, 24-Optiwhite™, 26-Solarblue®, 27-Pacifica®, 31-UltraClear®, 35-Pure Mid Iron™. Performance of VNG on additional glass substrates can be viewed on [viracon.com](http://viracon.com).

Complete flexibility – specify VNG-4022 on any of your preferred glass substrates.

Greater design options – combine VNG-4022 on the same surface as printing (Silk-Screen patterns or DigitalDistinctions™).

Superior aesthetics – the coating is applied after heat treating, improved flatness compared to architectural glass that is heat treated after applying coating.

CrystalGray® and UltraClear® are registered trademarks of Guardian Industries.  
Optiwhite™ is a trademark of Pilkington.  
Solarblue® and Pacifica® glass are registered trademarks of Vitro.



Architectural Glass Solutions for your next Landmark Project Start by visiting [viracon.com](http://viracon.com) or by calling 800.533.2080.

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