

The option classes listed below will begin trading on the MIAX Emerald Options Exchange at the start of trading on **Thursday, December 8, 2022**. All option classes on MIAX Emerald have an allocation style of Pro-Rata and billing style of Maker-Taker.

Security Symbol	Security Name	Option Class	Penny Pilot	Exchange for Opening	Closing	PLMM	Cloud
					Time		
AIMC	Altra Industrial Motion Corp.	AIMC	No	NASDAQ	4:00	Susquehanna Securities	1
ALKT	ALKAMI TECHNOLOGY INC	ALKT	No	NASDAQ	4:00	Citadel Securities, LLC	1
AMK	ASSETMARK FINANCIAL HOLDINGS, INC.	AMK	No	NYSE	4:00	Citadel Securities, LLC	1
AMPX	AMPRIUS TECHNOLOGIES INC	AMPX	No	NYSE	4:00	Susquehanna Securities	1
ARKO	ARKO CORP	ARKO	No	NASDAQ	4:00	Citadel Securities, LLC	1
BHVN	BIOHAVEN LTD	BHVN	No	NYSE	4:00	Citadel Securities, LLC	2
BVH	BLUEGREEN VACATIONS HOLDING CORPORATION	BVH	No	NYSE	4:00	Susquehanna Securities	2
CTKB	CYTEK BIOSCIENCES, INC.	CTKB	No	NASDAQ	4:00	Citadel Securities, LLC	2
DGS	WisdomTree Emerging Markets SmallCap Dividend Fund	DGS	No	NYSE Arca	4:00	Wolverine Trading, LLC	3
DH	DEFINITIVE HEALTHCARE CORP.	DH	No	NASDAQ	4:00	Susquehanna Securities	3
EPIX	ESSA PHARMA INC	EPIX	No	NASDAQ	4:00	Citadel Securities, LLC	3
FNGR	FINGERMOTION INC	FNGR	No	NASDAQ	4:00	Susquehanna Securities	3

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FORG	FORGEROCK INC	FORG	No	NYSE	4:00	Susquehanna Securities	3
IGAC	IG ACQUISITION CORP	IGAC	No	NASDAQ	4:00	Citadel Securities, LLC	5
KNBE	KNOWBE4, INC.	KNBE	No	NASDAQ	4:00	Susquehanna Securities	5
LTH	LIFE TIME GROUP HOLDINGS, INC.	LTH	No	NYSE	4:00	Susquehanna Securities	5
LYRA	LYRA THERAPEUTICS, INC.	LYRA	No	NASDAQ	4:00	Citadel Securities, LLC	5
NESR	National Energy Services Reunited Corp	NESR	No	NASDAQ	4:00	Susquehanna Securities	6
NTB	THE BANK OF N.T. BUTTERFIELD & SON LIMITED	NTB	No	NYSE	4:00	Wolverine Trading, LLC	6
PFFD	GLOBAL X U.S. PREFERRED ETF	PFFD	No	NYSE Arca	4:00	Citadel Securities, LLC	7
POSH	POSHMARK INC.	POSH	No	NASDAQ	4:00	Susquehanna Securities	7
PYCR	PAYCOR HCM, INC.	PYCR	No	NASDAQ	4:00	Wolverine Trading, LLC	7
ROG	ROGERS CORPORATION	ROG	No	NYSE	4:00	Susquehanna Securities	7
TDY	Teledyne Technologies Inc	TDY	No	NYSE	4:00	Wolverine Trading, LLC	8
USER	USERTESTING, INC.	USER	No	NYSE	4:00	Susquehanna Securities	9
VO	Vanguard Mid-Cap ETF	VO	No	NYSE Arca	4:00	Wolverine Trading, LLC	9

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Please contact MIAX Options Listings with any questions.

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