

The option classes listed below will begin trading on the MIAX Emerald Options Exchange at the start of trading on **Tuesday, October 4, 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		
AAWW	Atlas Air Worldwide Holdings, Inc.	AAWW	No	NASDAQ	4:00	Susquehanna Securities	1
ACWX	iShares MSCI ACWI ex US ETF	ACWX	No	NASDAQ	4:00	Wolverine Trading, LLC	1
ADES	ADVANCED EMISSIONS SOLUTIONS, INC.	ADES	No	NASDAQ	4:00	Citadel Securities, LLC	1
AKLI	Akili, Inc.	AKLI	No	NASDAQ	4:00	Citadel Securities, LLC	1
ALLG	ALLEGRO NV	ALLG	No	NYSE	4:00	Wolverine Trading, LLC	1
ALZN	ALZAMEND NEURO, INC.	ALZN	No	NASDAQ	4:00	Susquehanna Securities	1
ARHS	ARHAUS, INC.	ARHS	No	NASDAQ	4:00	Citadel Securities, LLC	1
ARQQ	Arqit Quantum Inc.	ARQQ	No	NASDAQ	4:00	Citadel Securities, LLC	1
ATCO	Atlas Corporation	ATCO	No	NYSE	4:00	Susquehanna Securities	1
AVLR	Avalara Inc	AVLR	No	NYSE	4:00	Susquehanna Securities	1
BRBR	BellRing Brands, Inc.	BRBR	No	NYSE	4:00	Wolverine Trading, LLC	2
CGA	CHINA GREEN AGRICULTURE, INC.	CGA	No	NYSE	4:00	Susquehanna Securities	2

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CHRD	Chord Energy Corporation	CHRD	No	NASDAQ	4:00	Susquehanna Securities	2
CINC	CINCOR PHARMA, INC.	CINC	No	NASDAQ	4:00	Citadel Securities, LLC	2
CMAX	CAREMAX, INC.	CMAX	No	NASDAQ	4:00	Citadel Securities, LLC	2
COWN	Cowen, Inc.	COWN	No	NASDAQ	4:00	Susquehanna Securities	2
CRDO	CREDO TECHNOLOGY GROUP HOLDING LTD.	CRDO	No	NASDAQ	4:00	Wolverine Trading, LLC	2
CRGY	CRESCENT ENERGY COMPANY	CRGY	No	NYSE	4:00	Susquehanna Securities	2
ENOV	ENOVIS CORPORATION	ENOV	No	NYSE	4:00	Susquehanna Securities	3
ERO	ERO COPPER CORP.	ERO	No	NYSE	4:00	Citadel Securities, LLC	3
FCNCA	FIRST CITIZENS BANCSHARES, INC.	FCNCA	No	NASDAQ	4:00	Wolverine Trading, LLC	3
FMTX	FORMA THERAPEUTICS HOLDINGS, INC.	FMTX	No	NASDAQ	4:00	Susquehanna Securities	3
FSP	Franklin Street Properties Corporation	FSP	No	AMEX	4:00	Wolverine Trading, LLC	3
GRIN	GRINDROD SHIPPING HOLDINGS LTD.	GRIN	No	NASDAQ	4:00	Wolverine Trading, LLC	4
GROV	GROVE COLLABORATIVE HOLDINGS, INC.	GROV	No	NYSE	4:00	Susquehanna Securities	4
HLN	HALEON PLC	HLN	No	NYSE	4:00	Wolverine Trading, LLC	4

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HPK	HIGHPEAK ENERGY INC	HPK	No	NASDAQ	4:00	Susquehanna Securities	4
IAS	INTEGRAL AD SCIENCE HOLDING CORP	IAS	No	NASDAQ	4:00	Citadel Securities, LLC	5
IRBT	iRobot Corporation	IRBT	No	NASDAQ	4:00	Susquehanna Securities	5
KLXE	KLX ENERGY SERVICES HOLDINGS, INC.	KLXE	No	NASDAQ	4:00	Citadel Securities, LLC	5
LIZI	LIZHI INCADR	LIZI	No	NASDAQ	4:00	Susquehanna Securities	5
LMACA	LIBERTY MEDIA ACQUISITION CORP.	LMACA	No	NASDAQ	4:00	Citadel Securities, LLC	5
LVLU	LULUS FASHION LOUNGE HOLDINGS, INC.	LVLU	No	NASDAQ	4:00	Susquehanna Securities	5
NE	NOBLE CORPORATION	NE	No	NYSE	4:00	Citadel Securities, LLC	6
NEGG	NEWEGG COMMERCE, INC.	NEGG	Yes	NASDAQ	4:00	Susquehanna Securities	6
NMTC	NEUROONE MEDICAL TECHNOLOGIES CORPORATION	NMTC	No	NASDAQ	4:00	Wolverine Trading, LLC	6
NOVT	Novanta Inc.	NOVT	No	NASDAQ	4:00	Wolverine Trading, LLC	6
PGY	PAGAYA TECHNOLOGIES LTD	PGY	No	NASDAQ	4:00	Susquehanna Securities	7
PYPD	POLYPID LTD.	PYPD	No	NASDAQ	4:00	Susquehanna Securities	7
SEV	SONO GROUP N.V.	SEV	No	NASDAQ	4:00	Susquehanna Securities	8

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SVFA	SVF INVESTMENT CORP.	SVFA	No	NASDAQ	4:00	Citadel Securities, LLC	8
TRMD	TORM PLC	TRMD	No	NASDAQ	4:00	Susquehanna Securities	8
TSLI	DIREXION DAILY TSLA BULL 1.5X SHARES	TSLI	No	NASDAQ	4:00	Citadel Securities, LLC	8
VCSA	VACASA INC	VCSA	No	NASDAQ	4:00	Susquehanna Securities	9
WDS	WOODSIDE ENERGY GROUP LTD	WDS	No	NYSE	4:00	Citadel Securities, LLC	10
WEAV	WEAVE COMMUNICATIONS, INC.	WEAV	No	NYSE	4:00	Wolverine Trading, LLC	10
WEBL	DIREXION DAILY DOW JONES INTERNET BULL 3X SHARES	WEBL	No	NYSE Arca	4:00	Citadel Securities, LLC	10
WEST	Westrock Coffee Company	WEST	No	NASDAQ	4:00	Citadel Securities, LLC	10

Please contact MIAX Options Listings with any questions.

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