

STRENGTH REPORT



METALS & MINING

"I make my best decisions when I am disorganized"

Said no one, ever

OVERVIEW	OLDEST 7 Days - 03/01/23 to 03/08/23	OLDER 7 Days - 03/08/23 to 03/15/23	NEWER 7 Days - 03/15/23 to 03/22/23	NEWEST / CURRENT 7 Days - 03/22/23 to 03/29/23	Status 03/29/23
Index/Sector/Industry/Sub-Industry					
METALS & MINING	Weakened	Weakened	Weakened	Strengthened	5 Average
METALS & MINING - Aluminum	Weakened	Weakened	Weakened	Unchanged	6 Weak
METALS & MINING - Copper	Weakened	Weakened	Unchanged	Strengthened	4 Strong
METALS & MINING - Gold	Weakened	Strengthened	Unchanged	Strengthened	3 Stronger
METALS & MINING - Industrial Metals & Minerals	Weakened	Weakened	Unchanged	Strengthened	6 Weak
METALS & MINING - Nonmetallic Mineral Mining	Unchanged	Weakened	Strengthened	Strengthened	6 Weak
METALS & MINING - Silver	Weakened	Strengthened	Strengthened	Unchanged	6 Weak
METALS & MINING - Steel & Iron	Weakened	Weakened	Weakened	Unchanged	6 Weak

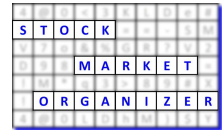
NEWEST / CURRENT	7 Days - 03/22/23 to 03/29/23	#	Min	Max	Avg	Status	KEY: Lower Strength	STRENGTH CHANGE	Higher Strength
METALS & MINING	Strengthened	53	-3%	13%	4%	5 Average	No change	<- Weakened	-> Strengthened
METALS & MINING - Aluminum	Unchanged	5	0%	13%	6%	6 Weak		<-	
METALS & MINING - Copper	Strengthened	2	4%	7%	5%	4 Strong		<-	
METALS & MINING - Gold	Strengthened	10	2%	9%	5%	3 Stronger		<-	
METALS & MINING - Industrial Metals & Minerals	Strengthened	18	-2%	7%	4%	6 Weak		<-	
METALS & MINING - Nonmetallic Mineral Mining	Strengthened	3	4%	13%	8%	6 Weak		<-	
METALS & MINING - Silver	Unchanged	6	-3%	10%	5%	6 Weak		<-	
METALS & MINING - Steel & Iron	Unchanged	9	1%	7%	3%	6 Weak		<-	

NEWER	7 Days - 03/15/23 to 03/22/23	#	Min	Max	Avg	Status	KEY: No change	<- Weakened	-> Strengthened
METALS & MINING	Weakened	53	-17%	18%	2%	6 Weak	No change	<-	<-
METALS & MINING - Aluminum	Weakened	5	3%	3%	0%	6 Weak		<-	
METALS & MINING - Copper	Unchanged	2	4%	7%	5%	5 Average		<-	
METALS & MINING - Gold	Unchanged	10	1%	6%	4%	5 Average		<-	
METALS & MINING - Industrial Metals & Minerals	Unchanged	18	-6%	15%	2%	7 Weaker		<-	
METALS & MINING - Nonmetallic Mineral Mining	Strengthened	3	2%	18%	6%	7 Weaker		<-	
METALS & MINING - Silver	Strengthened	6	-10%	7%	2%	6 Weak		<-	
METALS & MINING - Steel & Iron	Weakened	9	-17%	10%	1%	6 Weak		<-	

OLDER	7 Days - 03/08/23 to 03/15/23	#	Min	Max	Avg	Status	KEY: No change	<- Weakened	-> Strengthened
METALS & MINING	Weakened	53	-25%	18%	-7%	6 Weak	No change	<-	<-
METALS & MINING - Aluminum	Weakened	5	-25%	-3%	-6%	6 Weak		<-	
METALS & MINING - Copper	Weakened	2	-12%	-9%	-1%	5 Average		<-	
METALS & MINING - Gold	Strengthened	10	2%	12%	8%	5 Average		<-	
METALS & MINING - Industrial Metals & Minerals	Weakened	18	-21%	-7%	-3%	7 Weaker		<-	
METALS & MINING - Nonmetallic Mineral Mining	Weakened	3	-14%	-12%	-2%	7 Weaker		<-	
METALS & MINING - Silver	Strengthened	6	5%	18%	12%	6 Weak		<-	
METALS & MINING - Steel & Iron	Weakened	9	-23%	-8%	-5%	5 Average		<-	

OLDEST	7 Days - 03/01/23 to 03/08/23	#	Min	Max	Avg	Status	KEY: No change	<- Weakened	-> Strengthened
METALS & MINING	Weakened	53	-11%	6%	-3%	5 Average	No change	<-	<-
METALS & MINING - Aluminum	Weakened	5	4%	1%	-2%	3 Stronger		<-	
METALS & MINING - Copper	Weakened	2	-6%	-2%	-4%	2 Very Strong		<-	
METALS & MINING - Gold	Weakened	10	-8%	-1%	-5%	6 Weak		<-	
METALS & MINING - Industrial Metals & Minerals	Weakened	18	-11%	6%	-3%	5 Average		<-	
METALS & MINING - Nonmetallic Mineral Mining	Unchanged	3	-3%	3%	0%	6 Weak		<-	
METALS & MINING - Silver	Weakened	6	-8%	-2%	-6%	8 Very Weak		<-	
METALS & MINING - Steel & Iron	Weakened	9	-8%	3%	0%	3 Stronger		<-	

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1 week 03/22/23 to 03/29/23						Lower Strength	STRENGTH CHANGE		Higher Strength	
Sector	Sub-Industry	Company	Rank	Ticker	% Chg	Status	KEY:	No change	Weakened	Strengthened
Basic Materials	METALS & MINING - Aluminum	Arconic Corp	1.0	ARNC	0%	3 Stronger				
Basic Materials	METALS & MINING - Aluminum	Constellation NV	1.0	CSTM	3%	4 Strong				
Basic Materials	METALS & MINING - Aluminum	Century Aluminum Company	1.0	CENX	10%	6 Weak				
Basic Materials	METALS & MINING - Aluminum	Kaiser Aluminum Corp	1.0	KALU	13%	8 Very Weak				
Basic Materials	METALS & MINING - Aluminum	Alcoa Corporation	1.0	AA	2%	8 Very Weak				
Basic Materials	METALS & MINING - Copper	Southern Copper Corp	4.0	SCCO	7%	1 Strongest				
Basic Materials	METALS & MINING - Copper	Freeport-McMoran Inc	2.0	FCX	4%	6 Weak				
Basic Materials	METALS & MINING - Gold	Alamos Gold Inc	4.0	AGI	9%	1 Strongest				
Basic Materials	METALS & MINING - Gold	Oriskany Gold Royalties Ltd	4.0	OR	6%	1 Strongest				
Basic Materials	METALS & MINING - Gold	Eldorado Gold Corporation	4.0	EGO	5%	1 Strongest				
Basic Materials	METALS & MINING - Gold	Royal Gold Inc	4.0	RGLD	5%	1 Strongest				
Basic Materials	METALS & MINING - Gold	Franco Nevada Corp	3.0	FNV	2%	3 Stronger				
Basic Materials	METALS & MINING - Gold	Sandstorm Gold Limited	3.0	SAND	2%	4 Strong				
Basic Materials	METALS & MINING - Gold	Newmont Corporation	3.0	NEM	4%	5 Average				
Basic Materials	METALS & MINING - Gold	Barrick Gold Corp	2.0	GOLD	3%	5 Average				
Basic Materials	METALS & MINING - Gold	Agnico Eagle Mines Ltd	3.0	AEM	3%	5 Average				
Basic Materials	METALS & MINING - Gold	Seabridge Gold Inc	3.0	SA	9%	6 Weak				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Materion Corporation	4.0	MTRN	4%	1 Strongest				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Cameco Corp	3.0	CCJ	5%	3 Stronger				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Natural Resource Partners	2.0	NRP	-2%	3 Stronger				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	NACCO Industries Inc	3.0	NC	3%	6 Weak				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Alpha Metallurgical Resources Inc	3.0	AMR	7%	6 Weak				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Warrior Met Coal	1.0	HCC	5%	6 Weak				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Nexa Resources S.A.	3.0	NEXA	4%	6 Weak				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Teck Resources Limited	3.0	TECK	3%	6 Weak				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Centrus Energy Corp	2.0	LEU	-2%	7 Weaker				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Alliance Resource Partners LP	3.0	ARLP	5%	7 Weaker				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Lithium Americas Corp	2.0	LAC	4%	7 Weaker				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Peabody Energy Corporation	2.0	BTU	7%	8 Very Weak				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Energy Fuels Inc	2.0	UUUU	4%	8 Very Weak				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Arch Resources' Inc	2.0	ARCH	0%	8 Very Weak				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Livent Corporation	2.5	LTHM	6%	9 Weakest				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	MP Materials Corp	2.5	MP	5%	9 Weakest				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	U.S. Silica Holdings	2.5	SLCA	5%	9 Weakest				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Compass Minerals International	1.5	CMP	4%	9 Weakest				
Basic Materials	METALS & MINING - Nonmetallic Mineral Mining	Hallador Energy Co	3.0	HNRG	13%	3 Stronger				
Basic Materials	METALS & MINING - Nonmetallic Mineral Mining	CONSOL Energy Inc	3.0	CEIX	7%	7 Weaker				
Basic Materials	METALS & MINING - Nonmetallic Mineral Mining	Ramaco Resources Inc	2.5	METC	4%	9 Weakest				
Basic Materials	METALS & MINING - Silver	Wheaton Precious Metals Corp	3.0	WPM	5%	1 Strongest				
Basic Materials	METALS & MINING - Silver	SilverCrest Metals	1.0	SILV	5%	4 Strong				
Basic Materials	METALS & MINING - Silver	Pan Amer Silver Cp	1.0	PAAS	5%	6 Weak				
Basic Materials	METALS & MINING - Silver	SSR Mining Inc	2.0	SSRM	8%	7 Weaker				
Basic Materials	METALS & MINING - Silver	First Majestic Silver Corp	1.5	AG	10%	9 Weakest				
Basic Materials	METALS & MINING - Silver	Mag Silver Corp	1.5	MAG	-3%	9 Weakest				
Basic Materials	METALS & MINING - Steel & Iron	Steel Dynamics Inc	1.0	STLD	3%	3 Stronger				
Basic Materials	METALS & MINING - Steel & Iron	Commercial Metals Co	2.0	CMC	7%	5 Average				
Basic Materials	METALS & MINING - Steel & Iron	Suncoke Energy Inc	1.0	SXC	5%	5 Average				
Basic Materials	METALS & MINING - Steel & Iron	US Steel Corp	1.0	X	4%	5 Average				
Basic Materials	METALS & MINING - Steel & Iron	Nucor Corp	0.0	NUE	2%	5 Average				
Basic Materials	METALS & MINING - Steel & Iron	Timken Steel Corp	2.0	TMST	2%	6 Weak				
Basic Materials	METALS & MINING - Steel & Iron	Cleveland-Cliffs Inc	1.0	CLF	1%	6 Weak				
Basic Materials	METALS & MINING - Steel & Iron	Northwest Pipe Co	1.0	NWPX	4%	8 Very Weak				
Basic Materials	METALS & MINING - Steel & Iron	Insteel Industries Inc	1.5	IIIN	4%	9 Weakest				