STRENGTH REPORT

## METALS & MINING

"I make my best decisions when I am disorganized"

Said no one, ever



### ### ##############################				OLDEST		J	DLDER	NEWER	NEWEST /	CORREIN
NUMBER   Copper   Weakened   Weakened   Weakened   Weakened   Weakened   Unchanged   6			7 Day	s - 03/01	/23 to	7 Days -	03/08/23 to	7 Days - 03/15/23 to	7 Days - 03/22/23 to	Status 03/29/23
METALS & MINING - Aluminum	ector/Industry/Sub-Industry			03/08/2	3	03	/15/23	03/22/23	03/29/23	Status 03/29/23
METALS & MINING - Copper  METALS & MINING - Fondstrial Metals & Minerals  METALS & MINING - Industrial Metals & Minerals  METALS & MINING - Sheer   METALS & MIN	5 & MINING		V	Veakene	ed	We	eakened	Weakened	Strengthened	5 Average
METALS & MINING - Gold  MCTALS & MINING - Silver  MCTALS & MINING - MINING - Silver  MCTALS & MINING - MINING - Silver  MCTALS & MINING - MINING - MINING - Silver  MCTALS & MINING - MINING - MINING - Silver  MCTALS & MINING - MINING - Silver  MCTALS & MINING - MINING - MINING - Silver  MCTALS & MINING - MINING - MINING - Silver  MCTALS & MINING - MINING - MINING - Silver  MCTALS & MINING - MINING - MINING - Silver  MCTALS & MINING - Silver  MCTALS & MINING - MINING - Silver  MCTALS & MINING - Silver  MCTALS & MINING -	METALS & MINING - Aluminum		١	Weakened			eakened	Weakened	Unchanged	6 Weak
METALS & MINING - Steel & Iron  METALS & MINING - Steel & Iron	METALS & MINING - Copper		١	Weakened			eakened	Unchanged	Strengthened	4 Strong
METALS & MINING - Stored Mineral Mining   Unchanged   Weakened   Strengthened   Strengthened   Unchanged   6	METALS & MINING - Gold		٧	Weakened			ngthened	Unchanged	Strengthened	3 Stronger
METALS & MINING - Sheel & Iron    Weakened   Weakened   Weakened   Weakened   Unchanged   6			١	Veakene	:d	We	eakened	Unchanged	Strengthened	6 Weak
METALS & MINING - Steel & Iron    Weakened	S & MINING - Nonmetallic Mineral Mining		U	Inchange	ed	We	eakened	Strengthened	Strengthened	6 Weak
NEWEST / CURRENT   7 Days -03/21/23 to 03/25/23   8 Min   Max   Avg   Setuto   Sterngth   STRENCTH CHANGE   High MITTALS & MINING   Strengthened   55   3-30   335   3-05   Setuto   Strength   Strengthened   Strengt	·		Weakened			Strei	ngthened	Strengthened	Unchanged	6 Weak
NEWEST / CURRENT   7 Days -03/21/23 to 03/29/23   8 Min   Max   Avg   Settus   KEY   No change   Strongthened			Weakened			We	eakened	Weakened	Unchanged	6 Weak
NEWEST / CURRENT			Weakenea							
NEWEST / CURRENT				•				•		
NEWEST / CURRENT				٠					·	•
METALS & MINING - Aluminum	NEWEST / CURRENT	7 Days - 03/22/23 to 03/29/23	#	Min	Max	Avg	Status			Higher Strengtl -> Strengthened
METALS & MINING - Coper   Strengthened   10   2										
METALS & MINING - Copper METALS & MINING - Copper METALS & MINING - Montreallis Mineral Mining Strengthened 10 2 2 2 4 5 4 5 6 4 2 4 5 6 4 5 6 4 5 6 4 5 6 4 2 4 5 6 4 5										
MEFIALS & MINING - Industrial Metals & Minerals Mineral Mining MEFIALS & MINING - Industrial Metals & Minerals Strengthened 18									-> ->	
MEFALS & MINING - Industrial Metals & Minerals Mineral Mining Strengthened 3	* **		10		9%					-> -> ->
METALS & MINING - Silver         Unchanged         6         3/8         10%         5 %         6 Weak           METALS & MINING - Steel & Iron         7 Days - 03/15/23 to 03/22/23         # Min         Max         Avg         Status         KEY:         No change         @ Weakened         > Str           METALS & MINING - Auminum         Weakened         53         30%         0 % 6 Weak         6 Weak         C         METALS & MINING - Opper         Weakened         5 % 12%         3 % 5 % 5 % 5 % 5 % 5 % 5 % 5 % 5 % 5 %	S & MINING - Industrial Metals & Minerals		18	-2%	7%	4%	6 Weak	-> -> ->		
NEWER   7 Days - 03/15/23 to 03/22/23   1 Min   Max   Avg   Status   KEY:   No change   Weakened   Status   S	S & MINING - Nonmetallic Mineral Mining	Strengthened	3	4%	13%	8%	6 Weak	-> -> -> -	> ->	
NEWER   7 Days - 03/15/23 to 03/22/23	S & MINING - Silver	Unchanged	6 🗖	-3%	10%	5%	6 Weak			
METALS & MINING         Weakened         53         12%         18%         2%         6 Weak           METALS & MINING - Aluminum         Weakened         5         48         7%         5%         5 Average           METALS & MINING - Copper         Unchanged         10         15%         6%         4%         5 Average           METALS & MINING - Gold         Unchanged         18         46         15%         2%         7 Weaker           METALS & MINING - Holustrial Metals & Minerals         Unchanged         18         46         15%         2%         7 Weaker           METALS & MINING - Silver         Strengthened         6         10%         7%         2%         6 Weak           METALS & MINING - Silver         Weakened         9         10%         1%         6 Weak           METALS & MINING - Steel & Iron         Weakened         53         183         17%         6 Weak           METALS & MINING - Copper         Weakened         5         3,8         1,6         6 Weak           METALS & MINING - Copper         Weakened         2         3,8         1,6         6 Weak           METALS & MINING - Silver         Weakened         10         2,8         3,7         3,8 <t< td=""><td>5 &amp; MINING - Steel &amp; Iron</td><td>Unchanged</td><td>9</td><td><b>1</b>%</td><td>7%</td><td>3%</td><td>6 Weak</td><td></td><td></td><td></td></t<>	5 & MINING - Steel & Iron	Unchanged	9	<b>1</b> %	7%	3%	6 Weak			
METALS & MINING         Weakened         53         12%         18%         2%         6 Weak           METALS & MINING - Aluminum         Weakened         5         48         7%         5%         5 Average           METALS & MINING - Copper         Unchanged         10         15%         6%         4%         5 Average           METALS & MINING - Gold         Unchanged         18         46         15%         2%         7 Weaker           METALS & MINING - Holustrial Metals & Minerals         Unchanged         18         46         15%         2%         7 Weaker           METALS & MINING - Silver         Strengthened         6         10%         7%         2%         6 Weak           METALS & MINING - Silver         Weakened         9         10%         1%         6 Weak           METALS & MINING - Steel & Iron         Weakened         53         183         17%         6 Weak           METALS & MINING - Copper         Weakened         5         3,8         1,6         6 Weak           METALS & MINING - Copper         Weakened         2         3,8         1,6         6 Weak           METALS & MINING - Silver         Weakened         10         2,8         3,7         3,8 <t< td=""><td></td><td></td><td></td><td>·</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>				·						
METALS & MINING         Weakened         53         12%         18%         2%         6 Weak           METALS & MINING - Aluminum         Weakened         5         10%         3%         0%         6 Weak           METALS & MINING - Copper         Unchanged         10         1½         6%         3%         5 Average           METALS & MINING - Gold         Unchanged         10         1½         6%         3%         5 Average           METALS & MINING - Houstral Metals & Minerals         Unchanged         13         1%         5 Average         7 Weaker           METALS & MINING - Silver         Strengthened         6         10%         7%         2%         6 Weak           METALS & MINING - Silver         Weakened         9         10%         1%         6 Weak           METALS & MINING - Steel & Iron         Weakened         53         183         17%         6 Weak           METALS & MINING - Copper         Weakened         5         3         13         18         17%         6 Weak           METALS & MINING - Copper         Weakened         5         3         3         12%         3         5 Average           METALS & MINING - Gold         Weakened         10         2 <td></td>										
METALS & MINING         Weakened         53         17%         18%         2%         6 Weak           METALS & MINING - Aluminum         Weakened         5         10%         3%         0%         6 Weak           METALS & MINING - Copper         Unchanged         10         1½         6%         4%         5 Average           METALS & MINING - Gold         Unchanged         10         1½         6%         4%         5 Average           METALS & MINING - Hodustrial Metals & Mineral Mining         Strengthened         18         15%         15%         2%         7 Weaker           METALS & MINING - Silver         Strengthened         6         10%         7%         2%         6 Weak           METALS & MINING - Silver         Weakened         9         10%         1%         6 Weak           METALS & MINING - Copper         Weakened         53         23         18%         12%         6 Weak           METALS & MINING - Copper         Weakened         5         3%         16%         6 Weak           METALS & MINING - Gold         Weakened         2         12%         3%         3         3         4         4         5         4         3%         5         Average	NEWER	7 Days - 03/15/23 to 03/22/23	#	Min	Max	Δνσ	Status	KEY: No chang	e <- Weakened	-> Strengthened
METALS & MINING - Copper  METALS & MINING - Gold  METALS & MINING - Industrial Metals & Minerals  METALS & MINING - Industrial Metals & Minerals  METALS & MINING - Silver  M										ou enginerieu
METALS & MINING - Copper  METALS & MINING - Gold  METALS & MINING - Industrial Metals & Minerals  METALS & MINING - Industrial Metals & Minerals  METALS & MINING - Silver  M					3%	_			<- <-	
METALS & MINING - Industrial Metals & Minerals         Unchanged         18         15%         2%         7 Weaker         7 Weaker           METALS & MINING - Steel & Iron         Strengthened         3         -6%         15%         -6%         7 Weaker         9 Weakened         9 Weaker         9 Weaker         9 Weaker         9 Weaker         9 Weaker         9 Weaker         <				4%						
METALS & MINING - Nonmetallic Mineral Mining         Strengthened         3         18%         6%         7 Weaker         > > > > > > > > > > > > > > > > > > >	S & MINING - Gold	Unchanged	10	1%	<b>6</b> %	4%	5 Average			
METALS & MINING - Silver         Strengthened         6         10%         7%         2%         6 Weak           METALS & MINING - Steel & Iron         Weakened         9         10%         1%         6 Weak           METALS & MINING - Steel & Iron         Weakened         53         25%         188         7%         6 Weak           METALS & MINING - Aluminum         Weakened         5         25%         188         7%         6 Weak           METALS & MINING - Copper         Weakened         5         25%         18%         5 Average           METALS & MINING - Gold         Strengthened         10         2½         12%         33%         7 Weaker           METALS & MINING - Silver         Weakened         18         23%         7 Weaker         <<<<<<<<<<<<<<<<<<<<<<<<<<<<	5 & MINING - Industrial Metals & Minerals	Unchanged	18	<b>⊑6</b> %	15%	2%	7 Weaker			
METALS & MINING - Steel & Iron         Weakened         9         10%         1%         6 Weak         6 Weak         C < < < < < < < < < < < < < < < < < < <	5 & MINING - Nonmetallic Mineral Mining	Strengthened	3	- <b>2</b> %	18%	6%	7 Weaker	-> -> ->		
OLDER         7 Days - 03/08/23 to 03/15/23         # Min         Max         Avg         Status         KEY:         No change         < Weakened         > Strogger           METALS & MINING         Aluminum         Weakened         5         25%         18%         7%         6 Weak         < < < < < < < < < < < < < < < < < < <	5 & MINING - Silver	Strengthened	6	<b>10</b> %	7%	2%	6 Weak		> ->	
METALS & MINING         Weakened         53         25%         18%         7-7%         6 Weak         < < < < < < < < < < < < < < < < < < <	3 & MINING - Steel & Iron	Weakened	9 🗖	<b>-17</b> %	10%	1%	6 Weak		<- <- <-	
METALS & MINING         Weakened         53         25%         18%         7-7%         6 Weak         < < < < < < < < < < < < < < < < < < <										
METALS & MINING         Weakened         53         25%         18%         7-7%         6 Weak         < < < < < < < < < < < < < < < < < < <										
METALS & MINING - Aluminum         Weakened         5         25         4         -3%         46%         6 Weak         7 Weaker         7 Weaker         7 Weaker         7 Weaker         7 Weaker         7 Weaker         6 Weak         6 Weak         6 Weak         6 Weak         5 Average         7 Weaker         6 Weak         7 Weaker         6 Weak         7 Weaker         6 Weak         7 Weaker         6 Weak         5 Average         6 Weak         5 Average         6 Weak         5 Average         7 Weaker         6 Weak         5 Average         6 Weak         5 Average         6 Weak         6 Weak         5 Average         6 Weak         5 Average         6 Weak         6 Weak         5 Average         6 Weak         6 Weak         6 Weak         6 Weak	OLDER	7 Days - 03/08/23 to 03/15/23	#	Min	Max	Avg	Status	KEY: No chang	e <- Weakened	-> Strengthened
METALS & MINING - Copper         Weakened         2         11%         5 Average           METALS & MINING - Gold         Strengthened         10         2%         12%         3%         5 Average           METALS & MINING - Industrial Metals & Minerals         Weakened         18         2%         12%         12%         12%         7 Weaker           METALS & MINING - Nonmetallic Mineral Mining         Weakened         3         12%         12%         12%         7 Weaker         < < < < < < < < < < < < < < < < < < <	5 & MINING	Weakened	53	<b>-25</b> %	18%	<b>-7</b> %	6 Weak		<- <- <- <-	
METALS & MINING - Gold         Strengthened         10         2 kmetals         5 Average         5 Average         3 Average         4 Average         4 Average         7 Weaker         4 Weaker         4 Weaker         4 Weaker         4 Weaker         4 Weaker         5 Average         4 Weaker         4 Weaker         5 Average         4 Weaker         5 Average         5 Average         4 Veaker         5 Average         5 Average<		Weakened		<b>-25</b> %			6 Weak			
METALS & MINING - Industrial Metals & Minerals         Weakened         18         20         -7%         33%         7 Weaker         < < < < < < < < < < < < < < < < < < <										<- <- <- <- <- <-
METALS & MINING - Nonmetallic Mineral Mining         Weakened         3         12%         12%         7 Weaker         < < < < < < < < < < < < < < < < < < <					i	i				
METALS & MINING - Silver         Strengthened         6         5         18%         12%         6 Weak         5 Average         5 Average         C						i				
METALS & MINING - Steel & Iron         Weakened         9         3         4         5 Average         5 Average         C										
Cold				- 1		1		-> -> -> -> -> ->		
OLDEST 7 Days - 03/01/23 to 03/08/23 # Min Max Avg Status KEY: No change <- Weakened >> Stromer  METALS & MINING - Aluminum Weakened 5	a & MINING - Steel & Iron			<del>-23</del> %	-8%	15%	5 Average		<- <- <- <-	<- <- <- <-
METALS & MINING         Weakened         53         -119         6%         L35%         5 Average         < - < - < -           METALS & MINING - Aluminum         Weakened         5         1%         - 1%         3 Stronger         < - < - < -		•								
METALS & MINING         Weakened         53         -119         6%         L35%         5 Average         < - < - < -           METALS & MINING - Aluminum         Weakened         5         1%         - 1%         3 Stronger         < - < - < -										
METALS & MINING - Aluminum         Weakened         5         49         1%         -1%         3 Stronger         <-4           METALS & MINING - Copper         Weakened         2         -2%         -4%         2 Very Strong         2 Very Strong         6 Weak         <-										-> Strengthened
METALS & MINING - Copper         Weakened         2         -2%         2 Very Strong           METALS & MINING - Gold         Weakened         10         -3%         -1%         -5%         6 Weak         < - < - < -					_				<- <- <- <-	
METALS & MINING - Gold Weakened 10 -8% 4 -1% -5% 6 Weak					,					<- <- <-
				-,-	i	4%	, υ			<- <
					i	-5%				
		Weakened	18	-11%	6%					<- <-
METALS & MINING - Nonmetallic Mineral Mining Unchanged 3 -93   33 0% 6 Weak					1	υ%				
METALS & MINING - Silver         Weakened         6         38         -2%         8 Very Weak         < - < - < - < - < - < - < - < - < - < -						-5%		c- c- c- c-		
	O WINNING - Steel & ITOH		9	-576	5%	U%	5 Stronger			<- <-
		•								

## FOR EDUCATIONAL PURPOSES ONLY. NOT AN INVESTMENT RECOMMENDATION.

STRENGTH REPORT

## METALS & MINING

"I make my best decisions when I am disorganized"

Said no one, ever



	1 week 03/22/23 to 03/29/23							Lowe	r Strength	STRENGTH CHANGE	Higher Strength
Sector	Sub-Industry	<u>Company</u>		Rank	Ticker	% Chg	<u>Status</u>	KEY:	No change	<- Weakened	-> Strengthened
Basic Materials	METALS & MINING - Aluminum	Arconic Corp	<b>1.0</b>	1	ARNC	0%	3 Stronger			<u> </u>	
Basic Materials	METALS & MINING - Aluminum	Constellium NV	<b>1.0</b>	2	CSTM	3%	4 Strong				
Basic Materials	METALS & MINING - Aluminum	Century Aluminum Company	<b>1.0</b>	3	CENX	10%	6 Weak				
Basic Materials	METALS & MINING - Aluminum	Kaiser Aluminum Corp	<b>1.0</b>	4	KALU	13%	8 Very Weak				
Basic Materials	METALS & MINING - Aluminum	Alcoa Corporation	<b>1.0</b>	5	AA	2%	8 Very Weak				
Basic Materials	METALS & MINING - Copper	Southern Copper Corp	4.0	1	SCCO	7%	1 Strongest	1			-> -> ->
Basic Materials	METALS & MINING - Copper	Freeport-McMoran Inc	2.0	2	FCX	4%	6 Weak				
Basic Materials	METALS & MINING - Gold	Alamos Gold Inc	4.0	1	AGI	9%	1 Strongest				
Basic Materials	METALS & MINING - Gold	Osisko Gold Royalties Ltd	4.0	2	OR	<b>6</b> %	1 Strongest				
Basic Materials	METALS & MINING - Gold	Eldorado Gold Corporation	4.0	3	EGO	5%	1 Strongest				
Basic Materials	METALS & MINING - Gold	Royal Gold Inc	4.0	4	RGLD	5%	1 Strongest			-> -> -> ->	·> -> -> -> -> ->
Basic Materials	METALS & MINING - Gold	Franco Nevada Corp	3.0	5	FNV	2%	3 Stronger			-> -> ->	> -> -> ->
Basic Materials	METALS & MINING - Gold	Sandstorm Gold Limited	3.0	6	SAND	2%	4 Strong			-> -> -> -> -> -> ->	>
Basic Materials	METALS & MINING - Gold	Newmont Corporation	3.0	7	NEM	4%	5 Average	-> -	-> -> -> ->	-> -> -> ->	
Basic Materials	METALS & MINING - Gold	Barrick Gold Corp	2.0	8	GOLD	3%	5 Average				
Basic Materials	METALS & MINING - Gold	Agnico Eagle Mines Ltd	3.0	9	AEM	3%	5 Average		-> ->	-> -> -> ->	
Basic Materials	METALS & MINING - Gold	Seabridge Gold Inc	3.0	10	SA	9%	6 Weak	-> ->	-> -> -> ->		
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Materion Corporation	4.0	1	MTRN	4%					
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Cameco Corp	3.0	2	CCJ	5%		-> -	-> -> -> ->	-> -> -> -> -> -> ->	> -> -> ->
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Natural Resource Partners	2.0	3	NRP	-2%	_				
Basic Materials	METALS & MINING - Industrial Metals & Minerals	NACCO Industries Inc	3.0	4	NC	3%		-> ->	-> -> -> ->	->	_
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Alpha Metallurgical Resources Inc	3.0	5	AMR	7%			-> -> -> ->		
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Warrior Met Coal	1.0	6	HCC	5%			<b>&lt;- &lt;-</b>		
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Nexa Resources S.A.	3.0	7	NEXA	4%		->	-> -> -> ->		
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Teck Resources Limited	3.0	8	TECK	3%		_	-> -> -> ->		
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Centrus Energy Corp	2.0	9	LEU	-2%					
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Alliance Resource Partners LP	3.0	10	ARLP	5%		-> ->	-> -> ->		
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Lithium Americas Corp	2.0	11	LAC	4%					
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Peabody Energy Corporation	2.0	12	BTU	7%			_		
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Energy Fuels Inc	2.0	13	UUUU	4%					
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Arch Resources` Inc	2.0	14	ARCH	0%					
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Livent Corporation	2.5	15	LTHM	6%					
Basic Materials	METALS & MINING - Industrial Metals & Minerals	MP Materials Corp	2.5	16	MP	5%					
Basic Materials	METALS & MINING - Industrial Metals & Minerals	U.S. Silica Holdings	2.5	17	SLCA	5%					
Basic Materials	METALS & MINING - Industrial Metals & Minerals	Compass Minerals International	1.5	18	CMP	4%		6.6			
Basic Materials	METALS & MINING - Nonmetallic Mineral Mining	Hallador Energy Co	3.0	1	HNRG	13%				-> -> -> ->	2.2.2.2
Basic Materials	METALS & MINING - Nonmetallic Mineral Mining	CONSOL Energy Inc	3.0	2	CEIX	7%		-> ->	-> -> ->		
Basic Materials	METALS & MINING - Nonmetallic Mineral Mining	Ramaco Resources Inc	<b>2</b> .5	3	METC	4%					
Basic Materials	METALS & MINING - Silver	Wheaton Precious Metals Corp	3.0	1	WPM	5%					
Basic Materials	METALS & MINING - Silver	SilverCrest Metals	1.0	2	SILV	5%					
Basic Materials	METALS & MINING - Silver	Pan Amer Silver Cp	1.0	3	PAAS	5%					
Basic Materials	METALS & MINING - Silver	SSR Mining Inc	2.0	4	SSRM	8%		-> -> ·	<b>.</b>	-	
Basic Materials	METALS & MINING - Silver	First Majestic Silver Corp	1.5	5	AG	10%					
Basic Materials	METALS & MINING - Silver	Mag Silver Corp	1.5	6	MAG	-3%					
Basic Materials	METALS & MINING - Steel & Iron	Steel Dynamics Inc	1.0	1	STLD	3%					
Basic Materials	METALS & MINING - Steel & Iron	Commercial Metals Co	2.0	2	CMC	7%	_				
Basic Materials	METALS & MINING - Steel & Iron	Suncoke Energy Inc	1.0	3	SXC	5%			-7 -7 -3	-> -> -> ->	
	METALS & MINING - Steel & Iron METALS & MINING - Steel & Iron		1.0	3 4	X	4%	_				
Basic Materials		US Steel Corp		4 5	X NUE	!					
Basic Materials	METALS & MINING - Steel & Iron	Nucor Corp	0.0		TMST	2%				ζ- ζ- ζ- ζ- <u></u>	<- <- <- <- <-
Basic Materials	METALS & MINING - Steel & Iron	Timken Steel Corp		6 7				->	-> -> ->		
Basic Materials	METALS & MINING - Steel & Iron	Cleveland-Cliffs Inc	1.0		CLF	1%					
Basic Materials	METALS & MINING - Steel & Iron	Northwest Pipe Co	1.0	8 9	NWPX	4%					
Basic Materials	METALS & MINING - Steel & Iron	Insteel Industries Inc	<b>1.5</b>	9	IIIN	4%	9 Weakest			II III	