



## thyssenkrupp Materials NA

Copper and Brass Sales \* Ken-Mac Metals \* OnlineMetals.com  
 thyssenkrupp Steel Services \* thyssenkrupp Industrial Services \* thyssenkrupp Materials de  
 Mexico \* thyssenkrupp Engineered Plastics

**Daily Metal Values**  
 Market Close Numbers will be effective on file as of :  
**12/20/2019**

	12/19/2019 Market Close	12/18/2019 Prior Close	Change
Comex Copper	2.8315	2.8170	0.0145
Published Copper	3.6100	3.6000	0.0100
Published Zinc	2.0700	2.0600	0.0100
Published Tin	14.6072	14.5845	0.0227

LME Aluminum	0.8008	0.7974	0.0034
LME Copper	2.7946	2.7789	0.0157
LME Zinc	1.0541	1.0464	0.0077
LME Nickel	6.3662	6.2800	0.0862
LME Tin	7.8472	7.8245	0.0227
LME Lead	0.8602	0.8491	0.0111
Comex Silver per Troy Oz.	17.0580	16.9530	0.1050

LME Alum (3-mth future avg)	0.8142	0.8072	0.0070
Midwest Spot Alum (Daily)	0.9480	0.9439	0.0041

Averages:	Month to Date	Prior Month
Nickel	6.1844	6.8944
Comex CU	2.7419	2.6546
Midwest Spot	0.9487	0.9596

USD to CAD Conversion Effective:	12/20/2019	1.31222
CAD to USD Conversion Effective:	12/20/2019	0.76207

Weekly:	12/19/19	12/12/19	Change
Ferro-chrome HC min 60-65% Cr 6-8% C	0.89	0.89	0.00