



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 :
12/18/2019

| | 12/17/2019 Market Close | 12/16/2019 Prior Close | Change |
|------------------|----------------------------|---------------------------|---------|
| Comex Copper | 2.8195 | 2.8205 | -0.0010 |
| Published Copper | 3.6000 | 3.6000 | 0.0000 |
| Published Zinc | 2.0600 | 2.0400 | 0.0200 |
| Published Tin | 14.5618 | 14.5527 | 0.0091 |

| | | | |
|---------------------------|---------|---------|---------|
| LME Aluminum | 0.7956 | 0.7997 | -0.0041 |
| LME Copper | 2.8009 | 2.7921 | 0.0088 |
| LME Zinc | 1.0419 | 1.0292 | 0.0127 |
| LME Nickel | 6.3911 | 6.3889 | 0.0022 |
| LME Tin | 7.8018 | 7.7927 | 0.0091 |
| LME Lead | 0.8496 | 0.8498 | -0.0002 |
| Comex Silver per Troy Oz. | 16.9780 | 17.0190 | -0.0410 |

| | | | |
|-----------------------------|--------|--------|---------|
| LME Alum (3-mth future avg) | 0.8035 | 0.8076 | -0.0041 |
| Midwest Spot Alum (Daily) | 0.9463 | 0.9483 | -0.0020 |

| Averages: | Month to Date | Prior Month |
|--------------|---------------|-------------|
| Nickel | 6.1611 | 6.8944 |
| Comex CU | 2.7282 | 2.6546 |
| Midwest Spot | 0.9492 | 0.9596 |

| | | |
|----------------------------------|------------|---------|
| USD to CAD Conversion Effective: | 12/18/2019 | 1.31607 |
| CAD to USD Conversion Effective: | 12/18/2019 | 0.75984 |

| Weekly: | 12/12/19 | 12/05/19 | Change |
|--------------------------------------|----------|----------|--------|
| Ferro-chrome HC min 60-65% Cr 6-8% C | 0.89 | 0.89 | 0.00 |