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As you are well aware, commodity costs in general can vary significantly month to month. Specifically, as it relates to Nickel, the October 2018 LME Nickel Cash Average Price was above the base of \$3.00/LB. Copper was above the base of \$0.50/LB. Also, the typical surcharges in place for Iron, Chromium, and Aluminum and have been adjusted for the month. Consequently, the below metal surcharges will apply for all orders shipped during the month of November 2018:

| Alloy Name | Common Names | Total Schg (\$/LB) | Nickel % | Ni Schg (\$/LB) | Copper % | Cu Schg (\$/LB) | Other Schg (\$/LB) |
|--------------|---|--------------------|----------|-----------------|----------|-----------------|--------------------|
| 294 | Cuprothal, Alloy 294, Cuprothal 294, Nico, MWS-294, Cupron, Copel, Alloy 45, Neutrology, Advance, CuNi 102, Cu-Ni 44, Konstantan | \$3.08 | 42% | \$1.46 | 56% | \$1.62 | \$0.00 |
| A30 | Alloy 30, CuNi 30, 30 Alloy, MWS-30, Cuprothal 30, HAI-30, Cu-Ni 2, Alloy 230, Nickel Alloy 30 | \$2.90 | 2% | \$0.07 | 98% | \$2.83 | \$0.00 |
| A52 | Alloy 52, Kanthal 52, Nifethal 52 | \$1.82 | 52% | \$1.81 | 0% | \$0.00 | \$0.01 |
| A60 | Alloy 60, CuNi 60, 60 Alloy, MWS-60, Cuprothal 60, Lohm, HAI-60, Cu-Ni 6, Alloy 260, Nickel Alloy 60 | \$2.93 | 6% | \$0.21 | 94% | \$2.72 | \$0.00 |
| A90 | Alloy 90, CuNi 90, Alloy 290, #95 Alloy, 90 Alloy, MWS-90, Cu-Ni 10, Cuprothal 90, HAI-90, Cu-Ni 10, Alloy 260, Alloy 95, Nickel Alloy 90 | \$2.95 | 11% | \$0.38 | 89% | \$2.57 | \$0.00 |
| A120 | Alloy 120, MWS-120, Balco, Hytemco, HAI-380, Pelcoloy, Nickel Alloy 120, NIFE 5200, Kanthal 70, Alloy K70, Nifethal 70 | \$2.52 | 72% | \$2.51 | 0% | \$0.00 | \$0.01 |
| A180 | Alloy 180, CuNi 180, 180 Alloy, MWS-180, Cuprothal 180, Midohm, HAI-180, Cu-Ni 23, Alloy 380, Nickel Alloy 180 | \$3.01 | 21% | \$0.73 | 79% | \$2.28 | \$0.00 |
| ALK | Alkrothal 14, Alloy 750, Alferon 902, Alchrome 750, Resistohm 125, Aluchrom W, 750 Alloy, Stablohm 750 | \$0.56 | 0% | \$0.00 | 0% | \$0.00 | \$0.56 |
| KA1 | Kanthal A1, Kanthal, Alloy 875, Resistohm 145, Aluchrom 0, Alchrome 875, MWS-875, Stablohm 875 | \$0.79 | 0% | \$0.00 | 0% | \$0.00 | \$0.79 |
| KAF | Kanthal AF, Resistohm Y, Aluchrom Y, Alloy 837, AF | \$0.79 | 0% | \$0.00 | 0% | \$0.00 | \$0.79 |
| KAPM | KAPM, Alloy 875 PM, Kanthal APM | \$0.76 | 0% | \$0.00 | 0% | \$0.00 | \$0.76 |
| KD | Kanthal D, Kanthal, Alloy 815, Alchrome DK, Alferon 901, Resistohm 135, Aluchrom S, Stablohm 812 | \$0.79 | 0% | \$0.00 | 0% | \$0.00 | \$0.79 |
| KN | Alumel, T2, Thermothal N | \$3.31 | 95% | \$3.31 | 0% | \$0.00 | \$0.00 |
| KP | Chromel P, Chromel-P, Chromel, T1, Thermothal P | \$3.49 | 90% | \$3.14 | 0% | \$0.00 | \$0.35 |
| N4 | Chromel D, Nikrothal 40, N4, Chromax, HAI-NiCr 40, Tophet D, Resistohm 40, Cronifer III, 35-20 Ni-Cr, Alloy D, Nikrothal 4, MWS-610, Stablohm 610 | \$2.17 | 35% | \$1.22 | 0% | \$0.00 | \$0.95 |
| N6 | Chromel C, Nikrothal 60, N6, HAI-NiCr 60, Tophet C, Resistohm 60, Cronifer II, Electroloy, Nichrome, Alloy C, Nikrothal 6, MWS-675, Stablohm 675 | \$2.65 | 60% | \$2.09 | 0% | \$0.00 | \$0.56 |
| N7 | Nikrothal 70, Chromel 70/30, N7, HAI-NiCr 70, Tophet 30, Resistohm 70, Cronix 70, Stablohm 710 | \$3.46 | 70% | \$2.44 | 0% | \$0.00 | \$1.02 |
| N8 | Chromel A, Nikrothal 80, N8, Nichrome V, HAI-NiCr 80, Tophet A, Resistohm 80, Cronix 80, Protoloy, Nikrothal 8, Alloy A, MWS-650, Stablohm 650 | \$3.47 | 80% | \$2.79 | 0% | \$0.00 | \$0.68 |
| NI200 | Nickel 200, Nickel Alloy 200, Alloy 200, 200 Alloy, Alloy K205 | \$3.47 | 99.5% | \$3.47 | 0% | \$0.00 | \$0.00 |
| NI201 | Nickel 201, Nickel Alloy 201, Alloy 201, 201 Alloy, Alloy K270 | \$3.47 | 99.5% | \$3.47 | 0% | \$0.00 | \$0.00 |
| 316L | 316L Stainless Steel | \$1.09 | 14% | \$0.49 | 0% | \$0.00 | \$0.60 |