**Laboratory Submittal Form**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Company | |  | | | | | | | | | | | | Contact |  | | | | | |
| Billing Address | | | |  | | | | | | | | | | | | | | | | |
| Shipping Address (if different from billing) | | | | | | | | | |  | | | | | | | | | | |
| Phone No. | | |  | | | | | | | | E-mail | |  | | | | | | | |
| A/P Contact | | |  | | | | | | | | | | | E-mail / Phone | |  | | | | |
| Payment Method | | | | | | P.O. No. | |  | | | | | | | | | | | | Credit Card |
| Material/Condition | | | | | | |  | | | | | | | | | | | | | |
| Specification(s) | | | | | | |  | | | | | | | | | | | | | |
| Part No. |  | | | | | | | | Sample No. | | |  | | Lot  FCE  Job  No. | | | | |  | |
| Size(s) |  | | | | | | | | | | | | | Heat  Coil  No. | | |  | | | |
| Reference Info. | | | | |  | | | | | | | | | Cast  Heat  Date | | | |  | | |

***Services Requested***

***Mechanical:***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tensile Test: | Machined | | Full Size | | Proof Load | | Wedge | |  |
| Hardness: | Rockwell | | Brinell | | Microhardness: | | Knoop | | Vickers |
| Charpy V-Notch Test | | Temp (**Required**) | | °F  °C | | Minimum Energy | | ft. lb.  J | |
| Bend Test | Compression | | Shear | | Flaring | | Flattening | |  |

***Chemistry/Corrosion:***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Composition: | OES | XRF | EDS |  |  |
| Combustion: | C | S | O | N | H |
| Corrosion Testing | Method |  |  |  |  |
| Salt Spray (ASTM B117) | Hours |  | Photos: | Yes | No |

***Metallography/Other:***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Microstructure | | Macro Etch | | | SEM | | | Case Depth | |
| Coating Thickness | | Coating Weight | | | H Embrittlement | | | Ferrite | |
| Grain Size | | Failure Analysis (**Consultation Required**) | | | | | |  | |
|  | |  | | |  | | |  | |
| Comments/Special Instructions | | |  | **Rush**  **Service:** | | 72 hr.  (25% surcharge) | 48 hr.  (50% surcharge) | | 24 hr.  (100% surcharge) |
|  |  | |  | **Sample Return:** | | Yes | No | |  |
|  |  | |  | ***Note: Unreturned samples will be held on site for no longer than 90 days after completion of testing before being disposed of.*** | | | | | |
|  |  | |  |  | | | | | |
| Submitted By: |  | |  | Date: | |  |  | |  |