

Niobium metal ingots

| Denomination | Content | | |
|----------------------|------------|------------|-------------------|
| | Grade B | Grade A | High purity Grade |
| Nb | min 99.0% | min 99.75% | min 99.95% |
| N | max 0.2% | max 0.07% | max 50 ppm |
| O | max 0.3% | max 0.07% | max 70 ppm |
| H | -- | max 0.001% | max 10 ppm |
| C | max 0.05% | max 0.01% | max 30 ppm |
| P | max 0.03% | max 0.01% | max 50 ppm |
| Ti | max 0.01% | max 0.003% | max 10 ppm |
| Si | max 0.1% | max 0.015% | max 20 ppm |
| Al | max 0.5% | max 0.01% | max 10 ppm |
| Fe | max 0.1% | max 0.003% | max 10 ppm |
| Ta | max 0.05% | max 0.05% | max 300 ppm |
| W+Mo | max 0.010% | max 0.010% | max 30 ppm |
| Other elements, each | -- | -- | max 10 ppm |

The specification above is for standard product of AS Silmet. All materials can also be produced according to the customer's specifications.

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Tantalum metal ingots

| Denomination | Content | |
|--------------|-------------|-------------------|
| | Grade A | High purity Grade |
| Ta | min 99.9% | min 99.98% |
| Nb | max 0.10% | max 70 ppm |
| N | max 0.010% | max 20 ppm |
| O | max 0.015% | max 30 ppm |
| H | max 0.0015% | max 5 ppm |
| C | max 0.02% | max 30 ppm |
| Ti | max 0.010% | max 5 ppm |
| Si | max 0.005% | max 10 ppm |
| Al | max 0.005% | max 5 ppm |
| Fe | max 0.010% | max 15 ppm |
| Ni | max 0.010% | max 3 ppm |
| Mn | -- | max 5 ppm |
| Cu | | max 5 ppm |
| W | max 0.050% | max 30 ppm |
| Mo | max 0.020% | max 5 ppm |
| Pb | -- | max 5 ppm |

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