

# HD alloys

## Properties

*Customized tungsten alloys  
available upon request*

Representatives values	HD9230	HD9530	HD9720	HD9730
<b>Physical properties</b>				
Scott density ( $g/cm^3$ )	3.6	3.4	3.5	3.7
Tap density ( $g/cm^3$ )	6.4	6.7	5.7	6.7
<b>Chemical analysis</b>				
W content (wt %)	92.0	95.0	97.0	97.0
Ni content (wt %)	2.7	3.0	2.0	3.0
Cu content (wt %)	5.3	2.0	-	-
Fe content (wt %)	-	-	1.0	-
Oxygen content (wt %)	0.1	0.1	0.1	0.1
<b>Properties after free sintering under H<sub>2</sub></b>				
Sintering temperature (°C)	1300	1400	1300	1300
Density after sintering ( $g/cm^3$ )	17.4	18.0	18.5	18.5

## Microstructure

