



**Honeywell Titanium
Crystal**

Honeywell High-Purity Titanium Crystal



Electrolytic Titanium Crystal



Fombell, Pennsylvania Facility

OVERVIEW

Honeywell is an ISO9001/14001 certified, vertically-integrated producer of high purity titanium for specialty applications. In addition to ultra-high purity titanium for semiconductor applications, we also produce highly pure titanium crystal through molten salt electrolytic refining of titanium sponge. Crystal product contains very low levels of nickel, chromium, iron and virtually all other metals. Coupled with extremely low oxygen content, this material is perfectly suited for specialty titanium applications.

APPLICATIONS

- Specialty titanium alloys
- Highly-pure CP titanium
- Raw material for ultra-high purity refining methods

BENEFITS

- Low metallic impurity content
- Low interstitial content
- Available in range of volumes to suit variety of industrial applications

PURITY DATA*

	TYPICAL		MAXIMUM	
	Wt%	PPM	Wt%	PPM
Aluminum	0.0001	1	<0.0005	<5
Antimony	<0.0001	<0.1	<0.0001	<1
Chromium	0.0001	1	<0.0005	<5
Cobalt	<0.0001	<0.1	<0.0001	<1
Copper	0.0001	1	<0.0005	<5
Iron	0.0010	10	<0.0020	<20
Manganese	0.0005	5	<0.0020	<20
Nickel	<0.0001	<1	<0.0001	<1
Tin	<0.0001	<0.1	<0.0001	<1
Vanadium	<0.0001	<1	<0.0002	<2
Zirconium	0.0001	1	<0.0003	<3
Carbon	0.0025	25	<0.0050	<50
Hydrogen	0.0001	1	<0.0005	<5
Nitrogen	0.0010	10	<0.0040	<40
Oxygen	0.0100	100	<0.0200	<200

*Data are typical and should not be construed as maximum or minimum values for specification or for final design. Data on any particular piece of material may vary from those represented above.



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