Tungsten Powder

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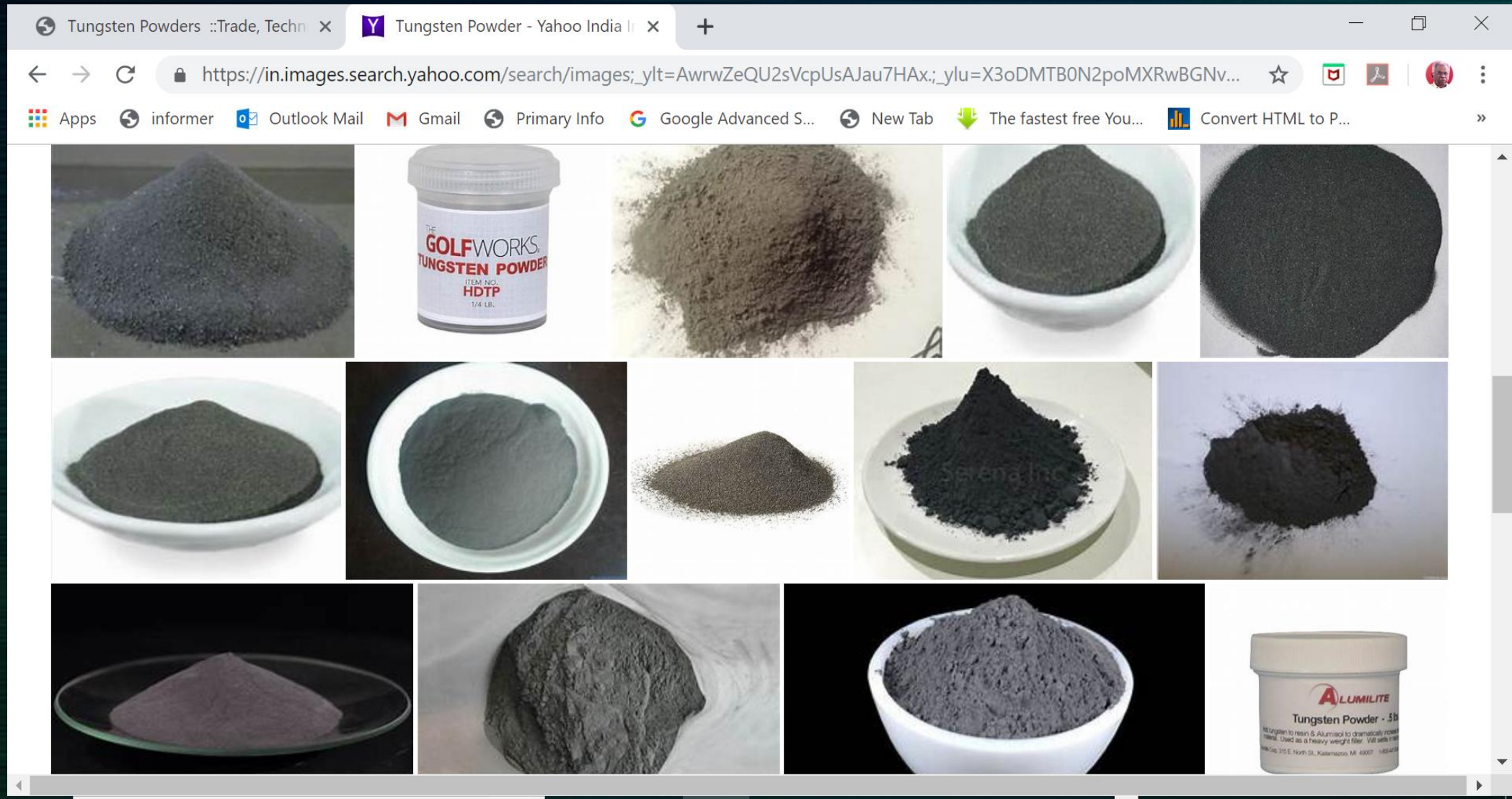
Tungsten Powder - Profile

- Tungsten is one of the strongest metal and it it used in many forms like bars , alloy , powder
- Tungsten powder is prepared by hydrogen reduction of tungsten trioxide or ammonium paratungstate.
- There is a growing requirement for tungsten products in the Indian market in industrial applications and also defense applications, where it has been identified as a strategic material for defense needs.
- The Indian market size of tungsten metal powder is said to be 150 tonnes per month
- Currently most of the tungsten is imported from China

Tungsten Powder in the Market



Applications

uses

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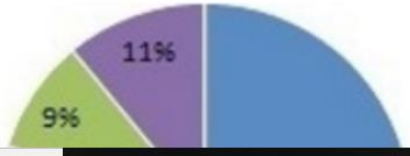
Fig. 2 Some Tungsten applications



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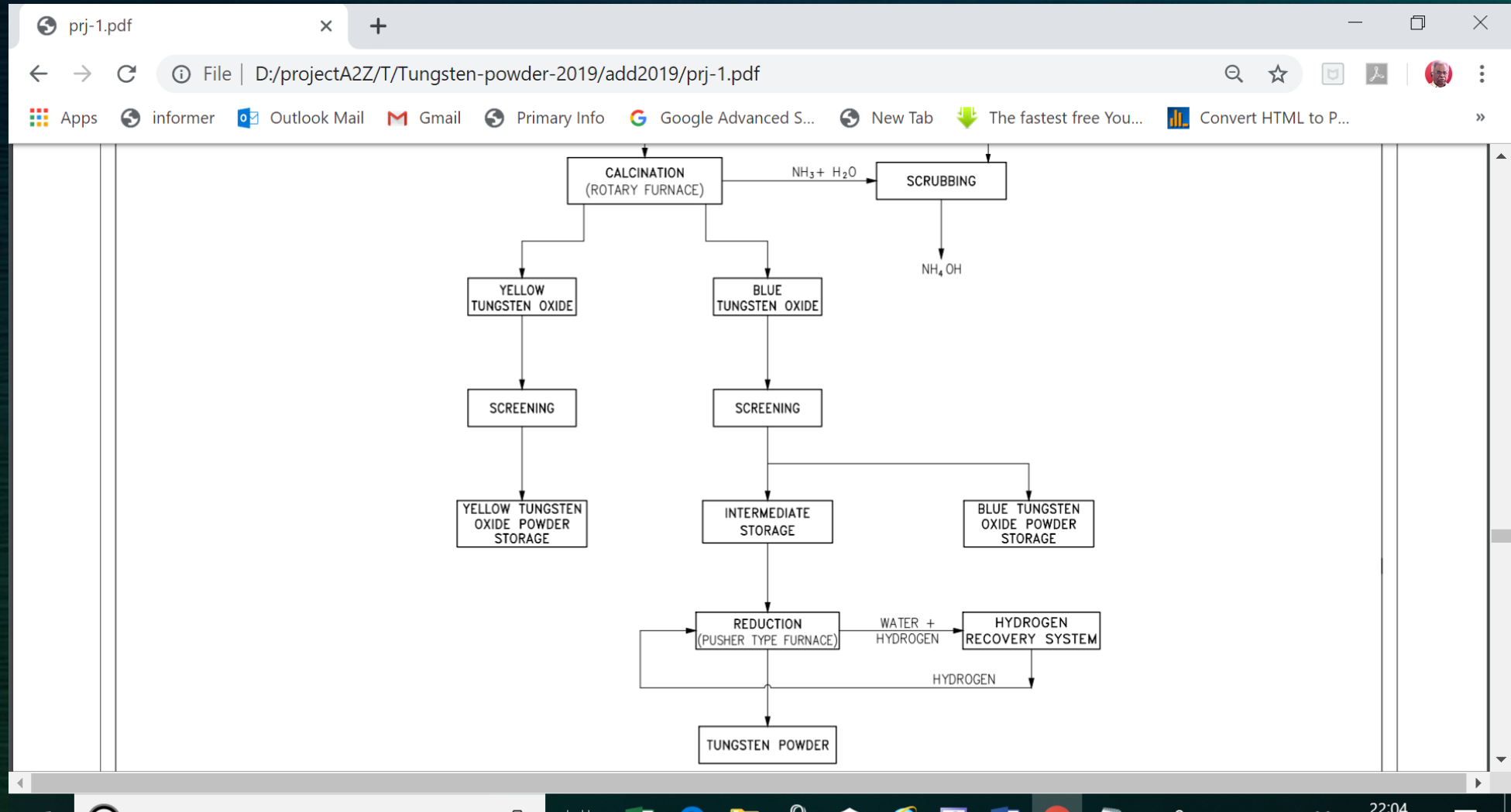
Process of Tungsten powder production

Tungsten metal powder shall be produced by calcination of Ammonium Para Tungstate (APT) in a rotary furnace at required temperature to form WO3. It shall be then reduced with gaseous hydrogen in a Pusher-Type Furnace



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(54) **METHOD FOR MANUFACTURING FINE TUNGSTEN POWDER**

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USPC **420/430**; 75/345

(57) **ABSTRACT**

A method for finely powdering tungsten powder, which includes electrolytically oxidizing tungsten powder while stirring in an aqueous mineral-acid solution to form an oxide film in the surface of the tungsten powder and removing the oxide film with an alkaline aqueous solution; a method for producing tungsten powder to obtain fine tungsten powder by a process including the above method for finely powdering; and a tungsten powder having an average particle size of 0.04 to 0.4 μm, in which the dMS value (product of an average particle size d (μm), true density M (g/cm^3) and BET specific

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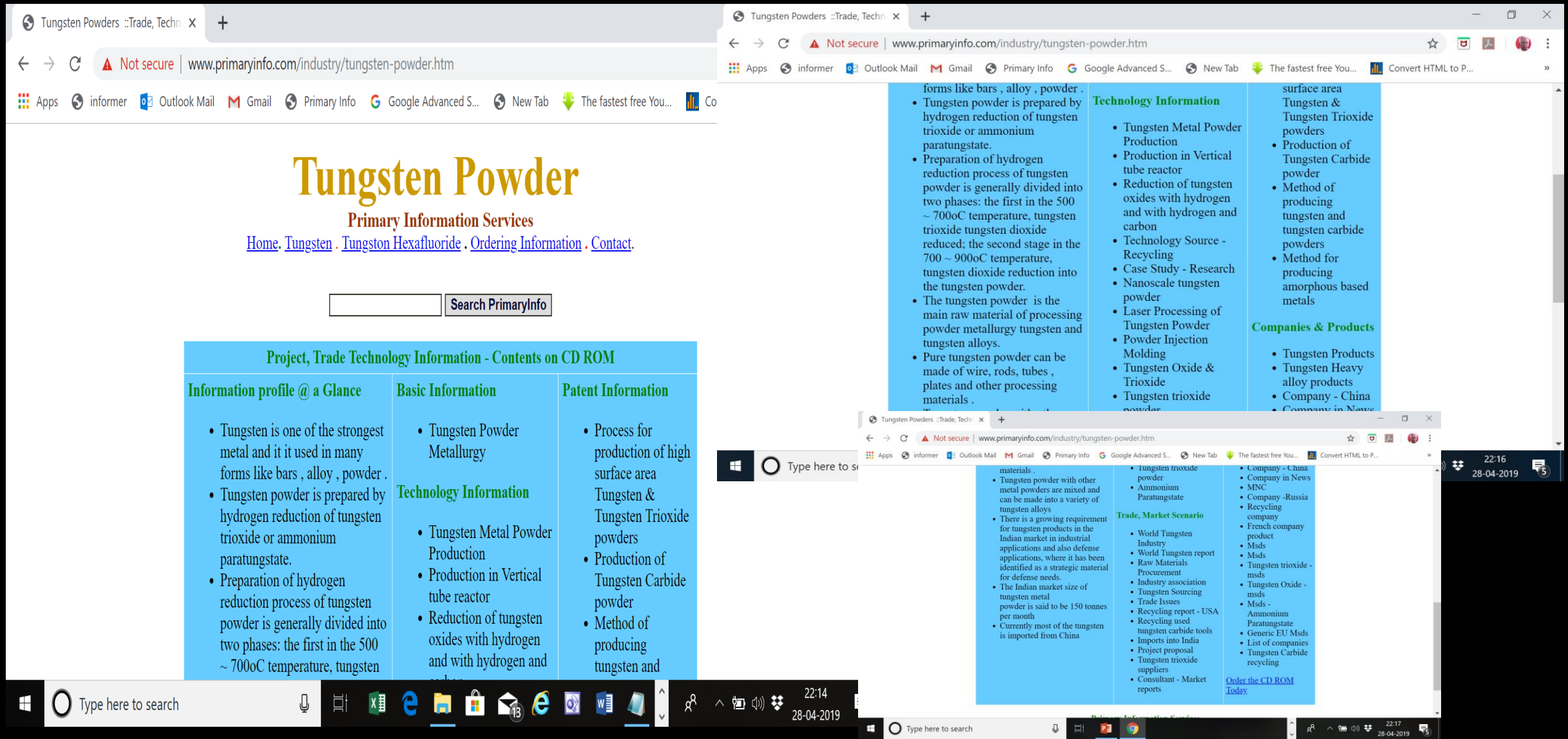

Manufacturing Plant

Australia

China Tungsten Powder Market Is Under Pressure With Intense

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Analysis of latest tungsten market from Chinatungsten Online

China tungsten prices remained weak adjustment on continued deadlocked supply and demand in the market. The raw material side stabilizes their offer levels with fewer low-price resources; downstream buyers are not active in inquiry with low consumption; smelting factories are under pressure, some of them even reduce production to stabilize product prices.

In the tungsten concentrate market, the control in raw material production supports tungsten ore prices and also benefits downstream product pricing in the cost side. Sellers now have not high acceptance for tungsten concentrate offers of $14,765.6 from large companies, but the pricing is actual controlled by the demand side.

The relatively stabilization in the upstream eases the pressure brought from the imbalanced supply and demand to some extent. While downstream buyers'

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