

ASX

Announcement 23 June 2014



KRUCIBLE METALS LTD

Mineral Discovery Company

ABN:12 118 788 846 ASX Code: KRB

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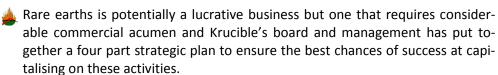
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Listed on Australia's main stock exchange since 2007, Krucible is an Australian-based resources company with an enviable history of discovery in phosphorus and heavy rare earths as well as other elements. Krucible continues to explore for precious metals, base metals and others, and is transitioning to a combined exploration and mining company. Krucible has plans and expectations to ultimately enter joint ventures to develop mines on tenements in the mineral rich Mount Isa area of north western Queensland. Krucible has a strong industry-based board and management, who promote aggressive value-added mining projects.

UNR Rare Earth Research Conference

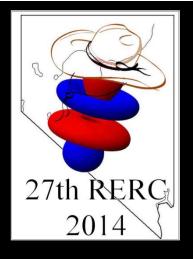
Krucible discovered rare earths at Korella in 2009, then later at Yttro, Coorabulka and Valroy. (ASX announcement 5 June 2014). Krucible now has the obligation of converting those discoveries to shareholder wealth.





Costean at Coorabulka May 2014

- Krucible is expanding its rare earth activities. In May 2014, Krucible completed its first soil sampling at Coorabulka EPM19286 and the new Valroy EPM25126 in the Boulia South region of northwest Qld and released preliminary rare earths results from a hand held Olympus Delta (DP-4050_C) XRF machine. (ASX announcement 5 June 2014).
- From early 2013, Krucible has undertaken extensive economic research and analysis to develop proprietary knowledge and understanding of the global pricing dynamics of rare earths in order to create a robust business model for commercialising the Company's rare earth discoveries. (ASX 27 February 2013.)
- Krucible has undertaken joint research to develop low cost rare earth extraction technology (ASX Announcement 18 December 2013) to ensure profitability at today's rare earth market prices.
- Krucible is promoting its rare earth activities and discoveries at international conferences to ensure suitable JV and M&A opportunities are made, (ASX Announcement 11 June 2014) and attached presentation at UNR 23 June 2014.



27th RARE EARTH RESEARCH CONFERENCE June 22-26, 2014 Squaw Valley, California

Global Pricing Dynamics of the Rare Earths Industry

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Information of a scientific or technical nature has been prepared with the approval of Andrew Vigar. Mr Vigar has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify him as "competent persons" as defined in the 2012 edition of the "Australasian Code of Reporting of Exploration Results, Mineral Resources and Ore Reserves". The technical material is generated and prepared by Bridgette Humphries, the company's Senior Geologist, who also has 5 years hands-on experience in the Krucible tenements and resources and is in the process of becoming our competent person. Information of a corporate, industrial or financial nature in this report has been prepared by Allan Branch the company's Managing Director and CEO. For further information please refer to reports and releases to the Australian Stock Exchange together with the Company's website at www.kruciblemetals.com.au.





KRUCIBLE METALS ABSTRACT

Scientific interest and funding for rare earths research is dependent on these interesting elements having commercial markets, so market prices are of fundamental importance.

This research examines the enigma of a market with critical global demand, deliberately controlled geopolitical supply, presumably geared to driving prices high, yet prices which when not depressed are reported as incomprehensible.

The results show that regardless of how critical rare earths are, they are used almost exclusively in consumer products, which implies strict price ceilings for components and raw materials. With China supplying around 87% of product and 80% of demand coming from Japan, those two countries essentially define the supply and demand market. Japan primarily manufactures consumer products. Some rare earths go into energy, space and military sectors, but the vast majority of demand sits in what is called an elastic market. (The USA DOD for example estimates usage of about 5% to 10%.) The two solutions manufacturers use when faced with pricey components in elastic markets are to find cheaper suppliers or to eliminate the need for the components all together.

During the search by manufacturers for alternatives, prices do usually hike because it takes time to source alternatives and re-tool production, but only for a short term, then the price settles back down again and there is a so called shift to a new equilibrium between supply and demand. All of these dynamics are clearly evident in the historical rare earths market.

The risk to both research and industry is that at least some rare earth applications become supplanted by alternatives and the interest and funding in them deteriorates.





KRUCIBLE METALS SHORT HISTORY



Listed in 2007 on ASX:KRB, head office in Townsville, Queensland, Australia

Share price AUD\$0.053, market cap AU\$5.3m, 80m shares, 20m options



Junior Explorer with tenements mostly in western Queensland

Indications of base and precious metals 2008



Discovered phosphate in 2009 (Korella)

Discovered rare earths in 2010 (Korella)



Discovered more rare earths in 2011 (Coorabulka, Yttro)

Applied for first mining lease in 2011, granted in 2012



Initiated low cost rare earth processing R&D in 2012

Sold phosphate assets in 2013, cash reserves \$12m



Initiated rare earths pricing analysis in 2013



REE anomalism widened at Coorabulka and Valroy in May 2014

Commercializing rare earth assets in 2014



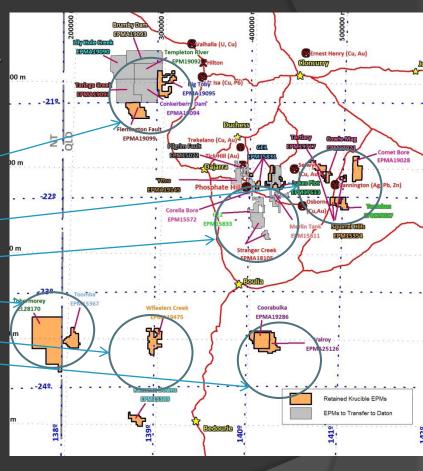
KRUCIBLE METALS TENEMENTS

Krucible has a number of exploration tenements and applications for tenements in north western Queensland and one across the border in the Northern Territory, concentrated in the areas shown. Principally these are along existing fault corridors and are mostly greenfield sites:

- 1. Isa West
- 2. Cannington
- 3. Phosphate Hill *
- 4. Northern Territory
- 5. Diamantina
- 6. Isa South

Krucible explores for base and precious metals, but our focus is also on strategic metals like:

- 1. Rare earths
- 2. Phosphate
- 3. Molybdenum
- 4. Strontium



^{*} First right of refusal joint ventures with Australia New Agribusiness & Chemical Group

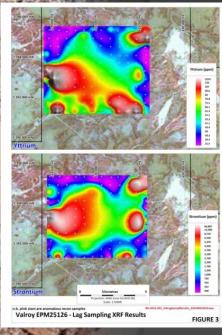


KRUCIBLE METALS RARE EARTH DISCOVERIES

Krucible has made a number of Heavy Rare Earth Element (HREE) discoveries in Queensland, Australia:

- At the Korella Phosphate deposit Krucible has defined a
 JORC Code Inferred Resource of 7.03 million tonnes.@

 0.93 kilograms per tonne Y₂O₃ (yttrium oxide) at shallow depth (average 30m). (ASX :5 April 2011)
- Exploration nearby at Yttro has discovered HREE in both Cambrian and Proterozoic aged units up to (in kilograms per tonne) 1.96 yttrium oxide, 2.22 neodymium oxide, 0.66 praseodymium oxide and 0.95 Scandium oxide, (ASX: Annual Report 2012)
- 3. Krucible has discovered further HREEs at Coorabulka, 300 km SSE of Mt Isa. Sampling has returned values up to (kilograms per tonne) 3.16 yttrium oxide, 4.49 neodymium oxide, 1.07 praseodymium oxide and 0.62 dysprosium oxide over a wide area. Interestingly 0.1% lead and 9.47% strontium were also recorded from this site. (ASX: 13 November 2012)
- 4. Exploration in May 2014 has extended the rare earths anomalism at Coorabulka and Valroy. (ASX: 6 June 2014)



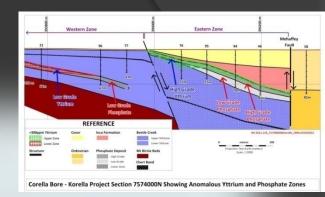




KRUCIBLE'S KORELLA DEPOSIT

Krucible believes the deposit at Korella is one of the few JORC Inferred HREE resources in Australia and is an uncomplicated mining scenario:

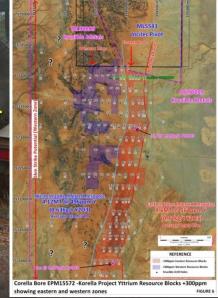
 Existing infrastructure: rail, airport, village, sealed road, gas, electricity all at site



. Shallow sedimentary so easily recovered open pi

2. Granted Mining Lease for phosphate underlying the rare earths, so rare earths are layered in the overburden

- 4. Metallurgy identified xenotime mineral known to be easier to concentrate than other REE minerals such as monazite
- Anomalous grades of valuable HREE such as dysprosium (Dy) up to 2m @ 294ppm from 19m (09CBRC-128) and neodymium (Nd) up to 1m @ 831ppm from 13m (11CBRC 161) have also been intersected in drilling at Korella. (ASX: Annual Report 30 October 2012)
- 6. Krucible sold this tenement in 2013 and retains first right of refusal to a joint venture for rare earth mining





KRUCIBLE'S COORABULKA DEPOSIT

Coorabulka EPM19286

Lies to the south of Boulia where Krucible has located strong REE values. Discovered in a 'borrow pit' dug by the council.

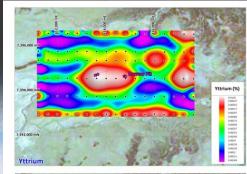
Krucible has since discovered further enrichment over 1km west of this pit. The most anomalous values include:

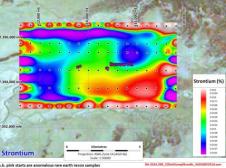
- 3.16 kg/t yttrium oxide (Y₂O₃)
- 4.49 kg/t neodymium oxide (Nd₂O₃)
- 1.08 kg/t praseodymium oxide (Pr₂O₃
- 0.62 kg/t dysprosium oxide (Dy₂O₃)

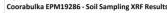
The area is also anomalous in other elements including:

- 1050ppm lead
- 9.47% strontium
 (Strontium is used in aluminium alloys)

Bench-top low-cost metallurgical leaching research underway







FIGUR







KRUCIBLE METALS RARE EARTHS PLANS

Krucible has successfully discovered and sold its phosphate tenements to enhance its financial position

Krucible now intends to commercialise its rare earth discoveries

Commercialising the phosphate assets in the current mining environment downturn was difficult and it is expected that achieving a similar result with rare earths will be even more difficult

A review of industry analyst and media reports showed confusion

Rare earths was a dilemma

It was immediately clear that understanding the industry, rare earth commodity prices, the geopolitical dynamics, and the various players in the sector, was going to be critical



THE RARE EARTHS INDUSTRY DYNAMICS ARE AN ENIGMA

- **Everyone knows and trusts that rare earths are critical** commodities
- We all know that life as we know it in the technology sector would cease to exist without them
- Their crucial need in magnets, alloys, LCD's, lasers, transport, alternative energy, defence, space, communications, and so on, is indisputable
- It is common knowledge that the majority of rare earth mining and processing is based in China
- We know that China-controls its exports and has even refused to supply the ke
- We know that China tries to control prices because this is important to its economy
- And still prices fall defying all supply and demand rules

"There's something a little strange going on in China's Production of the various rare earth oxides and metals. Something I'm not sure that I understand properly." (Tim Worstall Forbes Oct 27, 2012)











KRUCIBLE METALS RARE EARTHS STRATEGY

Because the rare earths prices did not make sense, Krucible undertook a "back to basics" approach to reassessing the dynamics of the rare earths prices, with surprising results

Having seen the extensive processing plant at Molycorp's Mountain Pass, Krucible also embarked in advance with research on low cost processing technology, with the aim of ensuring profits at current low rare earth prices

Krucible also negotiated to retain first right of refusal to develop any rare earths on the tenements it had sold in its phosphate asset sale (Korella and Yttro)

Krucible has expanded its exploration program at its other rare earth tenement at Coorabulka

Each of these components is incorporated into a package to attract a joint venture partner or other relationship

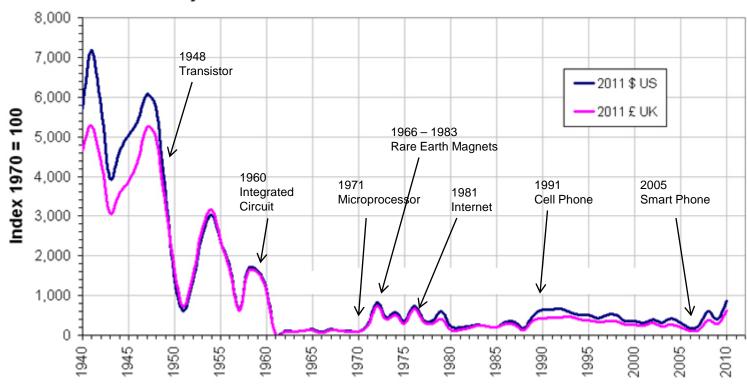
Krucible is promoting its rare earths activities world wide



HISTORICAL RARE EARTHS PRICES

We started by examining long term historical pricing data

Inflation Adjusted Rare-Earth Oxide Price in US Dollars and GB Pounds



Source: Rare-Earth Oxide Price -

U.S. Bureau of Mines and the U.S. Geological Survey-Minerals Yearbook (MYB) and its predecessor, Mineral Resources of the United States (MR), and Metal Prices in the United States through 1998 (MP98) www.http://minerals.usgs.gov/ds/2005/140/

US Inflation: Consumer Price Index (Estimate) 1800-2008. Handbook of Labor Statistics, U.S. Department of Labor

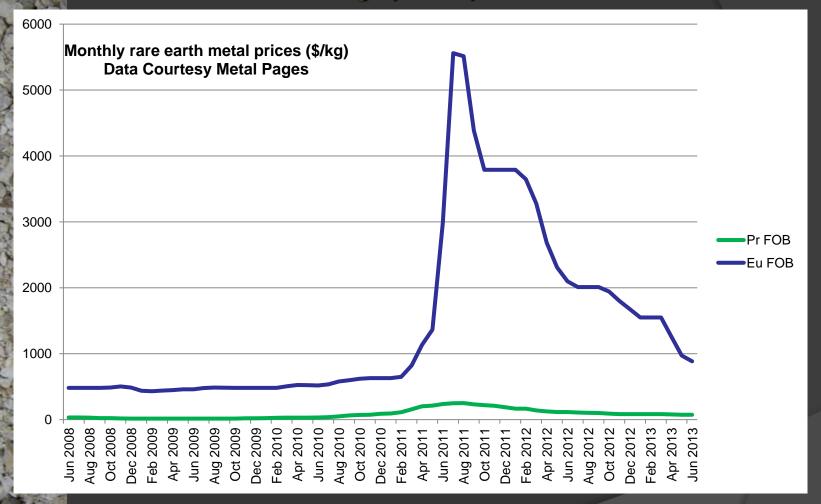
UK Inflation: Inflation: the Value of the Pound 1750-2005. Research Paper 06/09, House of Commons Library, UK. 13 February 2006

Since the beginning of solid state electronic consumer products, rare earth prices have always been modest



RECENT RARE EARTH PRICES

Then we looked at the high prices phenomenon of 2011



Which in early 2013 everyone expected or hoped would be resumed, but which was clearly an aberration



WHAT KRUCIBLE DISCOVERED WAS SURPRISING

- 1. Japan is the major user of rare earths, at around 87% of the demand (down from 95% with Molycorp and Lynas now in production), and China is the main supplier, at around 85% of the global production, so for all intents and purposes that is the market
- 2. In other words, although rare earths are critical, they go mostly into Japan where they contribute mostly to consumer products,
- 3. Instead of paying a high price of the raw ingredients in manufacturers will resort to alternative solutions such as different suppliers or different components

"Japan signed an agreement to import 4,100 tons of rare earths a year from India to diversify supply from China for mobile phones and hybrid cars to missile guidance systems

"GM and Toyota Motor Corp have found a way to make electric cars without rare earths, while Renault has started producing cars with electric motors that do not need permanent magnets"









RARE EARTH PRICES SUPPLY AND DEMAND ANALYSIS

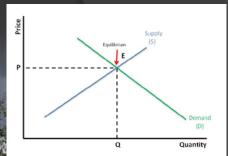
Krucible needed to test this hypothesis.

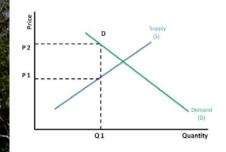
A hypothetical perfect market is shown in the top chart. In February 2013 Krucible examined the rare earths market and analysed the supply and demand dynamics with three fundamental findings:

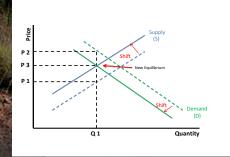
- 1. Krucible showed that the rare earths exist in what is an elastic market where the market prices for rare earths are set by the nature of the commodities they are used in
- 2. Krucible then showed that rare earth market prices will be controlled by users replacing suppliers or the raw materials when and if prices rise too far
- 3. Krucible also illustrated the evidence that after the 2011 price hikes, this is exactly what the manufacturers have been doing, albeit with the inevitable lag

The net result is pressure holding prices down

See Krucible Metal's website and ASX announcement 27 Feb 2013.











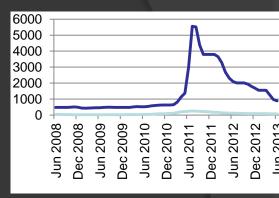
RARE EARTH PRICES TREND ANALYSIS

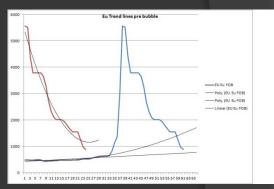
Monthly rare earth metal prices (\$/kg). Data Courtesy Metals-Pages

In June 2013, Krucible went further and researched and analysed the recent trends of the rare earths market with three fundamental findings:

- 1. Krucible showed that the rare earths prices around 2011 were an anomaly, a bubble that collapsed quickly and at prices that will return to pre-bubble levels
- 2. Krucible also showed that rare earth prices have dropped to below or about where they should be now, so current prices or slightly better should be treated as stable
- 3. Krucible was able to extrapolate and determine that for some rare earth commodities the prices will naturally double in price over a 4 year growth cycle

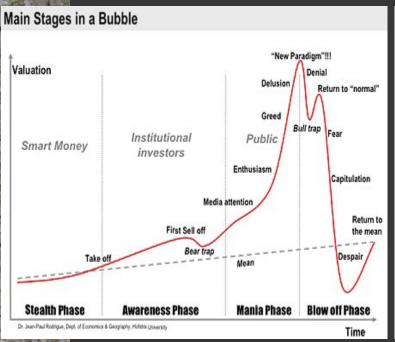
See Krucible website presentation Aug 2013, and Investorintel.com 7 June, 9 June and 5 July 2013.

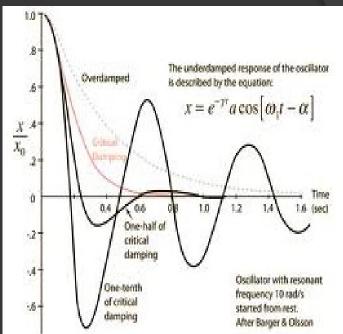






RARE EARTH PRICE BUBBLE



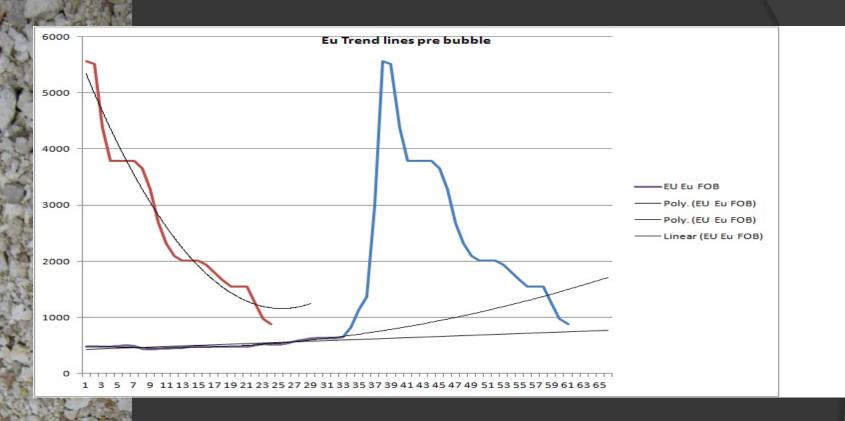


"It is interesting to compare the half-critical damped curve ... with the recovery stage (return to the mean) of the generic economic bubble curve ... which suggests that the recovery from a bubble can be modelled approximately by a damped oscillation."

http://investorintel.com/rare-earth-intel/rare-earth-prices-will-doexactly-this/#sthash.JHZFJN4a.dpuf. Allan Branch



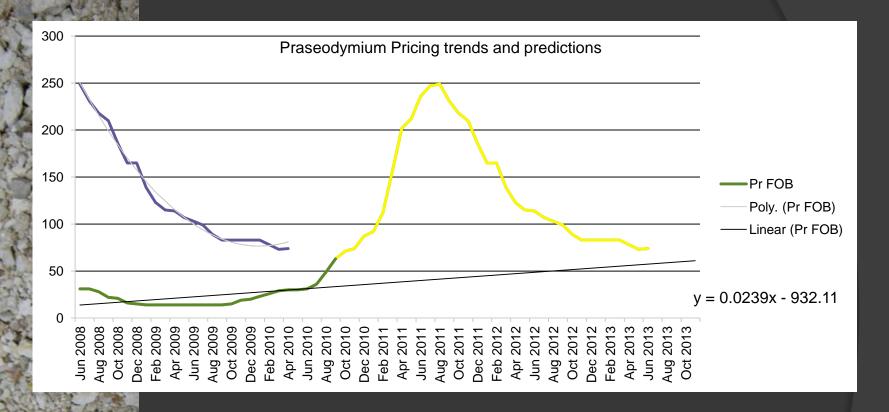
RARE EARTH PRICE PREDICTIONS, EUROPIUM



"Europium, a HREE, has dropped below its real value and will settle back to between \$1,200 and \$2,000 per kg by around 8 months ... " http://investorintel.com



RARE EARTH PRICE PREDICTIONS, PRASEODYMIUM



"Praseodymium, a LREE, has settled already at \$74 per kg, and will double in price every 4 years..."

http://investorintel.com



THE RARE EARTHS PRICE PREDICTIONS: SO FAR? Y Oxide 99.999% min FOB China (CN) S/mt Low 15,000 Y Oxide 99.999% min FOB China (CII) \$/mt High 15,500 "Europium, a HREE, July 22 2005 • Eu Oxide 99.9% min FOB China (CN) \$/kg Low 280 has dropped belowits Eu Oxide 99.9% min EOB China (CN) \$/kg High 29 real value and will settle back to between \$1,200 and \$2,000 per • Tb Oxide 99% min FOB China (CN) \$/kg High 82 kg by around 8 months, while praseodymium, LREE, has settled Pr Oxide 99% min FOB China (CN) \$/mt Low 120,000 already at \$74 per kg, Pr Oxide 99% min FOB China (CN) \$/mt High 130,000 and will double in pric every 4 years." Ce Oxide 99% min FOB China (CN) \$/mt Low 5.00 Ce Oxide 99% min FOB China (CN) \$/mt High 5.50 Allan Branch June 2013 http://investorintel.com 2014

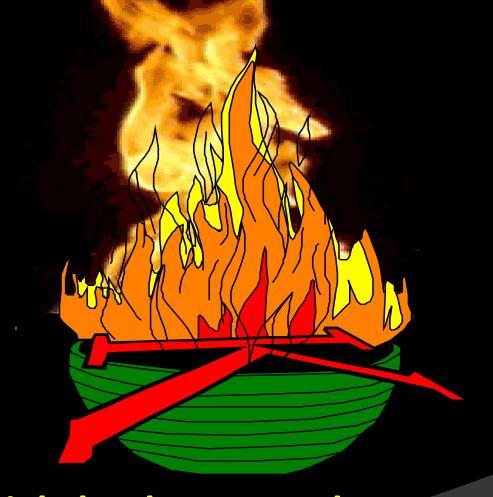
KRUCIBLE RARE EARTHS SUMMARY

Krucible has a 5 part strategy to commercialise or develop its rare earth opportunities

- 1. Continue exploring and or acquiring rare earth deposits
- 2. Continue research and scale-up of innovative low cost processing technology
- 3. Use results of analysis of global pricing dynamics to contribute to profitable and sustainable business model
- 4. Promote these components on the international conference circuit
- 5. Invitation to joint venture or other partners



Krucible Metals Ltd



Special Thanks to Metal Pages Ltd for Historical Pricing Data Used in this Analysis