

Behaviour of TiC-base cermets in different wear conditions

Kübarsepp, Jakob; Klaasen, Heinrich; Pirso, Jüri Wear 2001 / p. 229-234 : ill

Characterization and application of TiC-based iron alloys bonded cermets

Annuka, Harri 1999 http://www.ester.ee/record=b1273069*est

Characterization and application of TiC-based iron alloys bonded cermets

Annuka, Harri 1999 http://www.ester.ee/record=b1337168*est

Combustion synthesis of TiC-ZrC composite powder : role of mechanical activation

Hussainova, Irina; Manaseryan, L.; Khachatryan, H.; Hobosyan, M.; Kharatyan, Suren World PM2010 proceedings. Vol. 2, Sintering, Secondary and Finishing Operations, Full Density and Alternative Consolidation 2010 / p. 181-188

Diffusion in the interface region of Ti/TiAl-Nb buding

Kommel, Lembit Book of abstracts of International Conference on Diffusion in Solids : Past, Present and Future : DiSo-05 : 23-27 May, Moscow, Russia 2005 / p. 29 https://www.researchgate.net/publication/240837273_Diffusion_in_the_Interface_Region_of_TiTiAl-Nb_Bonding

Durability in application of TiC-base cermets

Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina PM2004 : Powder Metallurgy World Congress & Exhibition : 17-21st October 2004, Vienna, Austria : Euro PM2004 : conference proceedings. Volume 3 2004 / p. 617-622 : ill

Durability of advanced TiC base cermets

Klaasen, Heinrich; Preis, Irina; Kübarsepp, Jakob Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 21

Durability of advanced TiC-base cermets

Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina Proceedings of the Estonian Academy of Sciences. Engineering 2003 / 4, p. 272-280 : ill

Effect of laser surface texturing and fabrication methods on tribological properties of Ti6Al4V/HAp biocomposites

Sadlik, Julia; Kosinska, Edyta; Tomala, Agnieszka; Bankosz, Magdalena; Polajnar, Marko; Kumar, Rahul; Kalin, Mitjan; Kravanja, Gaia; Hribar, Luka; Hussainova, Irina Materials 2025 / art.2468 <https://doi.org/10.3390/ma18112468>

Effect of microstructure and residual stresses on the wear resistance and durability of steel bonded TiC cermets

Sergejev, Fjodor; Klaasen, Heinrich; Kübarsepp, Jakob; Traksmäa, Rainer Abstracts of International Conference on Fatigue Damage of Structural Materials - ICFDSM VIII, 18-24 September 2010 2010 / [1] p

Effect of oxidation on abrasive wear of TiC-based cermets at various temperatures

Antonov, Maksim; Hussainova, Irina; Pirso, Jüri; Juhani, Kristjan Proceedings of 14th Nordic Symposium on Tribology : NORDTRIB 2010 : 08.06-11.06.2010, Storforsen, Sweden 2010 / p. 0054 [CD-ROM]

Effect of sinter/HIP technology on properties of TiC-NiMo cermets

Kollo, Lauri; Pirso, Jüri; Juhani, Kristjan Materials science forum 2007 / Progress in powder metallurgy, p. 1169-1172 : ill

Electroconductive alumina-TiC-Ni nanocomposites obtained by spark plasma sintering

Rodriguez-Suarez, T.; Bartolome, Jose F.; Smirnov, Anton; Lopez-Esteban, S.; Diaz, L.A.; Torrecillas, R.; Moya, J.S. Ceramics international 2011 / p. 1631-1636 : ill

Enhancement of corrosion resistance in stainless TiC-base hardmetals

Baranovskaja, Irina; Kübarsepp, Jakob; Kallast, Vambola Proceedings of the Second National DAAAM Conference in Estonia : Science'96 1997 / p. 6-12

Enhancing the tensile properties of laser repairing Ti-6Al-4V alloys: Optimization of strain distribution based on composition fine-tuning

Zhang, H.; Wang, G.; Yang, S.; Wang, N.; Prashanth, Konda Gokuldoss; Ye, Z.; Zhao, K.; Zhang, F.; Tan, H. Journal of Materials Science & Technology 2024 / p. 1-11 <https://doi.org/10.1016/j.jmst.2024.02.065>

Erosive wear of TiC-base cermets

Kübarsepp, Jakob; Klaasen, Heinrich; Mikli, Valdek; Viljus, Mart Medžiagotyra = Materials science 2002 / 4, p. 486-488 : ill

Erosive wear of TiC-base cermets

Kübarsepp, Jakob; Klaasen, Heinrich; Mikli, Valdek; Viljus, Mart Abstracts of International Conference Materials Engineering and Tribology 2002 / p. 41

Evaluation of fatigue crack growth rates and fracture toughness in a selective laser-melted Ti-5.6Al-3.8V alloy with optimized microstructure after heat treatment

He, Yuqi; Zhao, Kexin; Zhang, Ying; Prashanth, Konda Gokuldoss; Ye, Zimeng; Yu, Zerong; Zhang, Fengying Materials science and engineering : A 2025 / art. 147822 <https://doi.org/10.1016/j.msea.2025.147822>

Features of wear of TiC-base hardmetals

Kübarsepp, Jakob; Reshetnjak, Heinrich; Pirso, Jüri; Annuka, Harri Proceedings of the World Congress and Exhibition on Powder Metallurgy, October 18-22, Granada, Spain 1998 / p. 75-79

Friction welding of electron beam melted Ti-6Al-4V

Qin, P.T.; Damodaram, R.; Maity, Tapabrata; Zhang, W.W.; Yang, C.; Wang, Zhi; Prashanth, Konda Gokuldoss Materials Science and Engineering : A 2019 / art. 138045, 6 p. : ill <https://doi.org/10.1016/j.msea.2019.138045> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

High strength Ti-6Al-4V alloy fabricated by high-energy cube milling using calcium as process control agent (PCA) and spark plasma sintering

Babu, N. Kishore; Kallip, Kaspar; Leparoux, Marc; AlOgab, Khaled A.; Talari, Mahesh Kumar; Alqathani, N. M. The international journal of advanced manufacturing technology 2017 / p. 445-453 : ill <https://doi.org/10.1007/s00170-017-9994-9>

Impact wear performance of thin hard coatings on TiC cermets

Veinthal, Renno; Sergejev, Fjodor; Yaldiz, Can Emrah; Mikli, Valdek 18th IFHTSE Congress : 2010 July 26th to 30th, Rio de Janeiro, Brazil 2010 / p. 5046-5056 : ill. [CD-ROM]

Impact wear performance of thin hard coatings on TiC cermets

Veinthal, Renno; Sergejev, Fjodor; Yaldiz, Can Emrah; Mikli, Valdek Journal of ASTM International 2011 / [10] p

Investigation of the fatigue mechanics aspects of PM hardmetals and cermets = Pulberkõvasulamite ja -kermiste väsimusmehaanika aspektide uurimine

Sergejev, Fjodor 2007 https://www.ester.ee/record=b2350243*est

Local tribo-mechanical properties of TiC-based cermets by nanoindentation

Sergejev, Fjodor Proceedings of 14th Nordic Symposium on Tribology : NORDTRIB 2010 : 08.06-11.06.2010, Storforsen, Sweden 2010 / [8] p. [CD-ROM]

Mechanical properties and wear performance of compression sintered TiC based cermets

Klaasen, Heinrich; Kollo, Lauri; Kübarsepp, Jakob Powder metallurgy 2007 / 2, p. 132-136

Microstructural characteristics and properties of reactive sintered TiC-based cermets

Juhani, Kristjan; Pirso, Jüri; Viljus, Mart; Letunovitš, Sergei 17th Plansee Seminar : International Conference on High Performance P/M Materials : Reutte, Austria, 25-29.05.2009 : proceedings. Vol. 2 2009 / p. HM56/1-HM65/6

Microstructure and microhardness characteristics in the interface region of Ti/TiAl-Nb diffusion bonding

Kommel, Lembit Engineering Materials & Tribology : BALTMATTRIB - 2003 : 12th International Baltic Conference : October 2-3, 2003, Tallinn, Estonia : abstracts 2003 / p. 56

Microstructure and properties of reactive sintered TiC-based cermets

Juhani, Kristjan; Pirso, Jüri; Viljus, Mart; Letunovitš, Sergei International Powder Metallurgy Congress & Exhibition : EURO PM2008 : 29th September - 1st October 2008, Mannheim, Germany : proceedings. Vol.3 2008 / p. 89-94 : ill

Microstructure control of titanium aluminides intermetallic by impact fused-forging modelling

Kommel, Lembit; Teterin, G.; Kodess, Boris N. Proceedings of NATO Advanced Research Workshop : Investigations and Applications of Severe Plastic Deformation : August 2-6, 1999, Moscow, Russia 1999 / p. 79

Microstructure evolution in Ti-alloys during severe deformation by electric upsetting and impact fused-forging modeling

Kodess, Boris N.; Kommel, Lembit; Teterin, G.P.; Ovcharov, V.K. Investigations and applications of severe plastic deformation 2000 / p. 211-218 : ill https://link.springer.com/chapter/10.1007/978-94-011-4062-1_28

Microstructure evolution in titanium alloys enforced by Joule heating and severe plastic deformation concurrently

Kommel, Lembit Journal of manufacturing technology research 2010 / 1/2, p. 59-76 https://www.researchgate.net/publication/270464593_Microstructure_Evolution_in_Titanium_Alloys_Enforced_by_Joule_Heating_and_Severe_Plastic_Deformation_Concurrently

Peculiarities of microstructure evolution and property changes of titanium alloys in situ during electric forging

Kommel, Lembit Materials performance and characterization 2020 / p. 75-88 : ill <https://doi.org/10.1520/MPC20190109> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance of sinterhipped TiC-base cermets

Klaasen, Heinrich; Kübarsepp, Jakob; Kollo, Lauri Proceedings of EURO PM 2006 Congress & Exhibition : Ghent, Belgium, 23-26 Oct. 2006. 1 2006 / p. 213-216

Phase evolution during high energy cube milling of Ti-6Al-4V-0.5 vol% TiC powders using heptane and tin as process control agents (PCAs)

Kishore Babu, N.; **Kallip, Kaspar**; Leparoux, Marc Advanced engineering materials 2017 / art. 1600662, p. 1-6 : ill
<http://dx.doi.org/10.1002/adem.201600662>

Phase transformations in titanium alloys by rapid electric conduction heating with SPD

Kommel, Lembit Book of abstracts of 10th International Symposium on Physics of Materials : ISPMA10 : August 30 - September 2, 2005, Prague, Czech Republic 2005 / p. 31
https://www.researchgate.net/publication/281554583_Phase_transformation_in_titanium_alloys_by_rapid_electric_conduction_heating_with_SPD

Pressurized sintering of TiC-base cermets

Klaasen, Heinrich; Kollo, Lauri; Kübarsepp, Jakob; Viljus, Mart Proceedings of European Powder Metallurgy Congress : EURO PM2007 : Toulouse (France), 15-17 October 2007. Vol. 1 2007 / p. 215-220

Residual stresses in TiC-based cermets measured by indentation

Sergejev, Fjodor; Kimmari, Eduard; Viljus, Mart Proceedia engineering 2011 / p. 2873-2881 : ill
<https://www.sciencedirect.com/science/article/pii/S1877705811006655>

Selective laser manufacturing of Ti-based alloys and composites : impact of process parameters, application trends, and future prospects

Singh, Nirmal Kumar; Hameed, Pearlin; **Ummethala, Raghunandan**; Manivasagam, Geetha; **Prashanth, Konda Gokuldoss**; Eckert, Juergen H. Materials Today Advances 2020 / Art. 100097 <https://doi.org/10.1016/j.mtadv.2020.100097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sinter/HIP technology of TiC-based cerments = Titaankarbiidkermiste survepaagutustehnoloogia

Kollo, Lauri 2007

Sintering technology and properties of TiC-base cermets

Klaasen, Heinrich; Kübarsepp, Jakob; Kollo, Lauri Engineerings Materials & Tribology 2004 : materials of the XIII-th International Baltic Conference : September 23-24, Riga, Latvia 2004 / p. 56-57

Sliding wear of TiC-NiMo cermets

Pirso, Jüri; Letunovitš, Sergei; Viljus, Mart Tribology international 2004 / p. 817-824 : ill

Slurry erosion-corrosion of TiC-NiMo cermets

Pirso, Jüri; Kübarsepp, Jakob Proceedings of the International Conference on Powder Metallurgy & Particulate Materials PM2TEC'99 : June 20-24, 1999, Vancouver, Canada 1999 / [7] p

Strength and failure of TiC based cermets

Klaasen, Heinrich; Kübarsepp, Jakob; Sergejev, Fjodor Powder metallurgy 2009 / 2, p. 111-115 : ill

Structural optimisation of titanium alloys by electric upset forging

Kommel, Lembit Proceedings of the First International Conference on Modeling, Simulation and Appliece Optimisation : ICMSAO-05 : February 1-3, Sharjah, United Arab Emirates 2005 / ? p

Superior wear resistance in EBM-Processed TC4 alloy compared with SLM and forged samples

Zhang, Weiwen; Qin, Peiting; Wang, Zhi; Yang, Chao; **Kollo, Lauri**; Grzesiak, Dariusz; **Prashanth, Konda Gokuldoss** Materials 2019 / art. 782 <https://doi.org/10.3390/ma12050782> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of nano-TiC addition on sintered Nd-Fe-B permanent magnets

Mural, Zorjana; Kollo, Lauri; Xia, Manlong; **Veinthal, Renno** Journal of magnetism and magnetic materials 2017 / p. 23-28 : ill
<https://doi.org/10.1016/j.jmmm.2016.12.115> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The investigation mechanism of structure forming in titanium alloys by electric upset forging

Kommel, Lembit Proceedings of the International Symposium-Exhibition on Advanced Materials, Technologies, Equipment and Tools in Mechanical Engineering : April 20-23, 1999, Kiev, Ukraine 1999 / p. 66

The structure formation of TiC-NiMo hardmetals during the sintering process

Viljus, Mart; Pirso, Jüri; Traksmäa, Rainer Proceedings of Joint Nordic Conference in Powder Technology : May 5-6, 1999, Oslo, Norway 1999 / p. 13

Three-body abrasive wear of TiC-NiMo cermets

Pirso, Jüri; Viljus, Mart; Juhani, Kristjan; Kuningas, Marius Tribology international 2010 / 1/2, p. 340-346 : ill

TiC-base cermets as wear resistant materials

Kübarsepp, Jakob; Klaasen, Heinrich; Pirso, Jüri; Klaasen, Heinrich vt.ka Reshetnjak, Heinrich; Reshetnjak, Heinrich vt.ka Klaasen, Heinrich 9th Nordic Symposium on Tribology NORDTRIB 2000 : Porvoo, Finland, 11-14 June 2000. Vol. 1 2000 / p. 206-215 : ill

TiC-base new design anti-skid studs of tyres

Kübarsepp, Jakob; Teeri, Niilo Proceedings of Joint Nordic Conference in Powder Technology 2000 / p. 13

Understanding the solute segregation and redistribution behavior in rapidly solidified binary Ti-X alloys fabricated through non-equilibrium laser processing

Ye, Zimeng; Zhao, Kexin; Yu, Zerong; **Prashanth, Konda Gokuldoss;** Zhang, Fengying; He, Yuqi; Peng, Yijie; Wu, Wenlu; Tan, Hua Additive Manufacturing 2024 / art. 104561 <https://doi.org/10.1016/j.addma.2024.104561>

Wear behaviour, durability, and cyclic strength of TiC base cermets

Klaasen, Heinrich; Kübarsepp, Jakob; Preis, Irina Materials science and technology 2004 / August, 1006-1010 p. : ill

Wear performance of TiC-base cermets

Roosaar, Tõnu; Kübarsepp, Jakob; Klaasen, Heinrich; Viljus, Mart Materials science 2008 / p. 238-241 : ill

Wear performance of TiC-base cermets

Roosaar, Tõnu; Kübarsepp, Jakob; Klaasen, Heinrich; Viljus, Mart 17th International Baltic Conference : Materials Engineering 2008 : November 6-7, Kaunas, Lithuania : abstracts of papers 2008 / p. 32

Влияние некоторых технологических факторов на свойства дисперсионно-твердеющих сплавов Cu-Ti

Letunovičs, Sergei; Pirso, Jüri Свойства и технология изготовления композиционных материалов 1986 / с. 22-30

Влияние содержания углерода в связке на механические свойства термообрабатываемых сплавов карбид титана - сталь

Kübarsepp, Jakob Порошковая металлургия = Powder metallurgy : ежемесячный научно-технический журнал 1985 / с. 43-46 https://www.ester.ee/record=b1645489*est

Влияние теплофизических свойств титановых сплавов на параметры электровысадки

Kommel, Lembit; Teterin, G.; Kodess, Boris N. Кузнечно-штамповочное производство 1998 / 7, с. 29-34: ил

Вопросы выбора состава карбидтитановых сплавов со связками на основе железа

Kübarsepp, Jakob [Порошковая металлургия] : тезисы докладов XV всесоюзной научно-технической конференции : (19-22 нояб. 1985 г.) 1985 / с. 381-382 https://www.ester.ee/record=b2336294*est

Использование стружечных отходов титановых сплавов в производстве карбидосталей

Levinskii, J.; **Kübarsepp, Jakob** Тезисы докладов пятой республиканской конференции "Эрозионностойкие порошковые материалы и покрытия" 1988 / с. 25-26 https://www.ester.ee/record=b1256812*est

Исследование механических свойств и коррозионной стойкости порошковых твердых сплавов TiC-сталь

Kallast, Vambola; Kübarsepp, Jakob; Talimets, Ellen; Schächter, K.; Lohonyai, N. Комплексная переработка фосфатного сырья, анализ природных и технических объектов 1986 / с. 89-94

Контактное взаимодействие карбида титана с некоторыми сплавами железа

Kübarsepp, Jakob; Dzökovitš, I. Адгезия расплавов и пайка материалов : республиканский межведомственный сборник. Вып. 13 1984 / с. 66-70 : ил https://www.ester.ee/record=b2012925*est

Место спеченных сплавов TiC-сталь среди твердых сплавов

Valdma, Leo; Kübarsepp, Jakob Тезисы докладов XIV Всесоюзной конференции по порошковой металлургии (г. Ташкент, 1979 г.) 1979 / с. 80-81

Некоторые вопросы по оптимизации состава жаропрочных карбидтитановых сплавов

Valdma, Leo; Kudrjavitsev, Vladimir Тезисы докладов I республиканской конференции по порошковой металлургии : эрозионностойкие спеченные материалы и их применение 1975 / с. 19 https://www.ester.ee/record=b1314322*est

Некоторые показатели работоспособности безвольфрамовых твердых сплавов "TiC-сталь"

Kübarsepp, Jakob; Rešetnjak, Heinrich Твердосплавная штамповая оснастка в электромашиностроении : тезисы докладов V отраслевого научно-технического семинара 1987 / с. 56-58 : таб https://www.ester.ee/record=b1272870*est

Некоторые проблемы изготовления и применения карбидтитановых сплавов со стальным связками

Kübarsepp, Jakob; Valdma, Leo; Annuka, Harri Металловедение и термическая обработка металлов : [ежемесячный научно-технический и производственный журнал] 1987 / с. 43-45 : илл

Некоторые проблемы технологии изготовления сплавов TiC-сталь

Kübarsepp, Jakob; Valdma, Leo; Annuka, Harri Свойства и технология изготовления композиционных материалов 1986 / с. 58-65

Некоторые технологические вопросы при изготовлении карбидтитановых спеченных сплавов

Valdma, Leo; Kozjakov, Vladimir Тезисы докладов I республиканской конференции по порошковой металлургии : эрозиянностойкие спеченные материалы и их применение 1975 / с. 20 https://www.ester.ee/record=b1314322*est

Окисление твердых сплавов на основе карбида титана, содержащих железо, хром и кремний

Lavrenko, V.; Protsenko, T.; **Kübarsepp, Jakob; Valdma, Leo** Сверхтвердые материалы 1982 / с. 47-50

Получение и свойства коррозионностойких сплавов TiC-сталь

Kübarsepp, Jakob; Valdma, Leo Свойства и технология изготовления износостойких материалов 1980 / с. 33-40
https://www.ester.ee/record=b1276393*est <https://digikogu.taltech.ee/et/Item/be560987-a637-4f71-93da-1a9ee9705512>

Пористые металлокерамические сплавы на основе титана

Arensburger, Daniil; Корёлова, V.; Perepelkin, A. Порошковая металлургия = Powder metallurgy : ежемесячный научно-технический журнал 1972 / с. 48-52 : илл https://www.ester.ee/record=b1645489*est

Проблемы изготовления коррозионностойких твердых сплавов TiC-сталь

Kübarsepp, Jakob Свойства и технология изготовления композиционных материалов 1985 / с. 67-73

Проблемы легирования карбидтитановых твёрдых сплавов, цементированных сплавами на основе железа

Kübarsepp, Jakob; Valdma, Leo Карбиды и материалы на их основе : [Сборник статей] 1983 / с. [?]