



SmCo and NdFeB MAGNETS COMPLIANT TO DFARS

REGULATIONS

The U.S. Defense Federal Acquisition Regulation Supplement DFARS 225.7018, 10 U.S.C. 2533c, 'The John S. McCain National Defense Authorization Act – NDAA 2019' includes a ban on rare earth permanent magnets in products for national defense purposes, including neodymium-iron-boron

(NdFeB) and samarium-cobalt (SmCo) originating in China, North Korea, Russia, and Iran. VAC's European-based production fulfills all requirements to comply with DFARS 252.225-7052.

VACUUMSCHMELZE (VAC) confirms compliance with DFARS regulations 225.7018, 10 U.S.C. 2533c and 252.225-7052 for the following Samarium-Cobalt and Neodymium-Iron-Boron permanent magnets:

SAMARIUM-COBALT

- SmCo₅ and Sm₂Co₁₇ grades delivered under the tradename VACOMAX® can be supplied as compliant material upon request, subject to minimum order quantity and lead time

NEODYMIUM-IRON-BORON

- NdFeB grades delivered under the tradename VACODYM® 80x can be supplied as compliant material upon request, subject to minimum order quantity and lead time.

ADVANCED MAGNETIC SOLUTIONS

VAC®
VACUUMSCHMELZE

FORMS OF SUPPLY AND AVAILABILITY

All grades will be supplied as block material. Single pressed magnets might be manufactured upon request. For further information on dimensions, dimensional tolerances and magnetization please refer to our Product Management. You may select your partner under www.vacuumschmelze.com/en/contact. As all raw materials used are standard products and the production takes place in Europe, all grades are available within the delivery times common for those products.

Furthermore, customized solutions, i.e. as complex magnet assemblies are possible. The positioning of magnets with extreme precision and the very high forces associated with

large-volume magnetized parts, make the assembling a challenging task. For this process we apply our extensive experience in the design and construction of assembly tools and our know-how in the selection of a suitable bonding process. Please let us know how we can support your project.

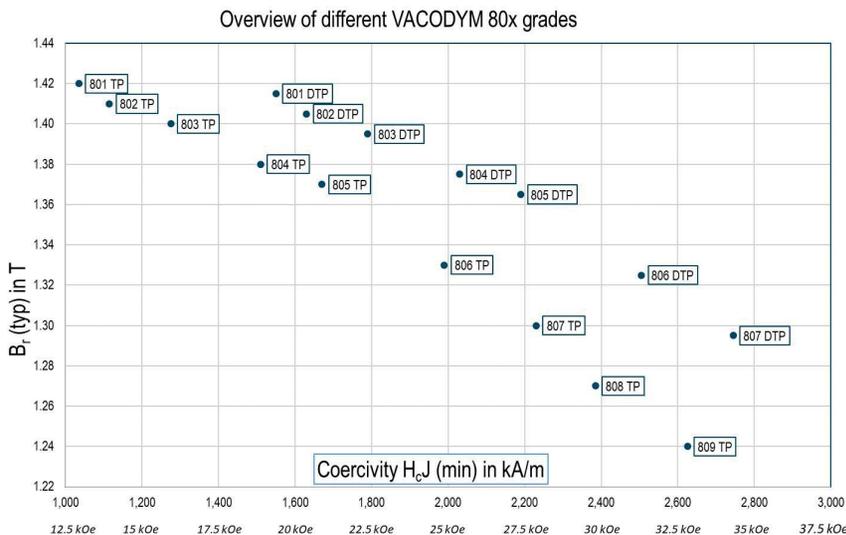


Bandaged motor with rare earth magnet assemblies

CHARACTERISTIC PROPERTIES OF VACODYM AT ROOM TEMPERATURE (20 °C)

The table and according graph show remanence over coercivity for our VACODYM 80X grades.

	801 DTP	801 TP	802 DTP	802 TP	803 DTP	803 TP	804 DTP	804 TP	805 DTP	805 TP	806 DTP	806 TP	807 DTP	807 TP	808 TP	809 TP
$H_{cJ(min)}$ kA/m	1,550	1,035	1,630	1,115	1,790	1,275	2,030	1,510	2,190	1,670	2,505	1,990	2,745	2,230	2,385	2,625
$B_{r(typ)}$ T	1.42	1.42	1.41	1.41	1.40	1.40	1.38	1.38	1.37	1.37	1.33	1.33	1.30	1.30	1.27	1.24



Magnet block

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