

## Bohler-Uddeholm UDDEHOLM Carmo Granshots Tool Steel Foundry Meltstock

Category : Metal , Ferrous Metal , Tool Steel , Cold Work Steel

### Material Notes:

Uddeholm Carmo Granshots is a foundry meltstock for production of cast tools and dies. The use of Granshots means that no further metallurgy is needed in the foundry. After melting of the granules in a high frequency furnace the molten metal is ready for immediate casting without further processing. Uddeholm Carmo Granshots is manufactured utilizing Uddeholm Technology's water granulation process. When the molten material has reached the granulation tank it is poured onto a refractory target and distributed as small droplets into a water bath. Thereafter the material is passed through dewatering, during and surface deoxidation equipment. Advantages: Reduced handling costs Reduced material consumption Reduced power consumption Exact and certified chemical analysis Consistent quality No charge for laboratory analyses High yield of charge material as well as castings Just-in-time supply High flexibility Applications: The chemical composition of Uddeholm Carmo Granshots corresponds to a cold work tool steel which has been developed together with the automotive industry. The chemical composition has been balanced to give an universal tool steel grade for car body dies. The steel can be used in flame-/induction hardened or through hardened condition for blanking and forming of both car body parts (thin sheet) or structural parts (thicker sheet). It is possible to get a tool surface hardness of 58  $\pm$ 2 HRC by flame-/induction hardening without water cooling. It is also easy to perform repair welding. Welding electrodes with the same composition as Uddeholm Carmo Granshots and wrought Uddeholm Carmo give a high degree of flexibility and facilitate tool maintenance procedures.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Bohler-Uddeholm-UDDEHOLM-Carmo-Granshots-Tool-Steel-Foundry-Meltstock.php](http://www.lookpolymers.com/polymer_Bohler-Uddeholm-UDDEHOLM-Carmo-Granshots-Tool-Steel-Foundry-Meltstock.php)

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell C	59 - 65	59 - 65	

Component Elements Properties	Metric	English	Comments
Carbon, C	0.60 %	0.60 %	
Chromium, Cr	4.5 %	4.5 %	
Iron, Fe	93 %	93 %	As Balance
Manganese, Mn	0.80 %	0.80 %	
Molybdenum, Mo	0.50 %	0.50 %	
Silicon, Si	0.35 %	0.35 %	
Vanadium, V	0.25 %	0.25 %	

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