



## THE SECONDARY ALLOYS THE CYLINDERS HEADS



### Certification ISO 9001

Regeal AFFIMET is approved ISO 9001 and gets each year the renewal of its certification with success.



### A quality recognized by the users:

The big names of the foundry recognize the quality of the Regeal AFFIMET's products. This legitimization associates to our flexibility make us a major supplier of this sector.



### Quality / Laboratory

Our quality team seeks its expertise to serve you and to ensure the best quality level.

Our Laboratory and our trial foundry are as well to your service for your development and your metals expertise needs.



Our teams have to their disposal the latest technology (a trial foundry and two spectrometers, microscopes, binoculars bears, buffing machines) which allows them to make some metallurgical analysis and some strict controls in order to meet your sharpest issues.



### A team at your disposal:

- Production in small and big quantities in accordance with your needs (from 1 ton to 25 tons)
- Brochet ingots of 7 kg
- Flexibility and reactivity in the best delivery time of the market
- Closely controls at each step of the process
- Guaranteed traceability
- Supply chain under control in his totality



## CHEMICAL ANALYSIS

Designation	Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti
AS5U3	5.0-5.5	0.5	2.9-3.4	0.40	0.05	0.30	0.20	0.05-0.15
AS7U3	6.8-7.5	0.40-0.65	3.2-3.7	0.20-0.50	0.25-0.60	0.20	0.30	0.11-0.25

## MECHANICAL CHARACTERISTICS

Designation	State	Rm MPa	Rp0.2 MPa	A %	HBS	
AS5U3	Y20	180	150	0.5	75	Y20 - Sand casting without heat treatment
	Y30	220	150	1.5	75	Y23 - Sand casting with heat treatment
AS7U3	Y20	185	180	0.5	85	Y30 - Gravity Die casting without heat treatment
	Y30	225	180	1	85	Y33 - Gravity Die casting with heat treatment

Y40 - High pressure Die Casting without heat treatment  
Y43 - High pressure Die Casting with heat treatment

## POSSIBLE FIELD OF USE

AS5U3	Very large series cast in metallic die (gravity, low pressure) sand, lost foam....
AS7U3	Automotive cylinder heads - General mechanics