

# AFFIMET

R e g e a l

## THE SECONDARY ALLOYS

### HIGH PRESSURE DIE CASTING



#### 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 legitimation 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

Fabricant d'alliages d'aluminium

1<sup>ère</sup> fusion, 2<sup>ème</sup> fusion, Recyclage des déchets d'aluminium

## CHEMICAL ANALYSIS

Designation	Si	Fe	Cu	Mn	Mg	Ni	Zn	Ti
AS9U3	8.5-9.5	0.90	2.8-3.7	0.35	0.15-0.30	0.30	1.00	0.15
AS12U	10.5-12.0	0.85	1.5-3.5	0.50	0.25	0.50	1.00	0.20

## MECHANICAL CHARACTERISTICS

Designation	State	Rm Mpa	Rp0.2 Mpa	A %	HBS
AS9U3	Y30	230	160	1	80
	Y40	240-310		0.5-3.0	80-110
AS12U	Y40	220-300	140-200	1-3	60-80

Y20 - Sand casting without heat treatment  
 Y23 - Sand casting with heat treatment  
 Y30 - Gravity Die casting without heat treatment  
 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

AS9U3	Parts in very large series - High die casting
AS12U	Automotive - Electronic foods - General mechanics